

WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT

A FEDERAL CLEAN WATER ACT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND WASHINGTON STATE WASTE DISCHARGE GENERAL PERMIT









City of Bellevue, Washington NPDES ANNUAL REPORT

2017 STORMWATER MANAGEMENT PROGRAM / 2016 COMPLIANCE REPORT

March 2017





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1. INTRODUCTION

1.1 Overview and Background

The National Pollutant Discharge Elimination System (NPDES) permit program is a requirement of the federal Clean Water Act, which is intended to protect water quality and restore waters for "fishable, swimmable" uses. The federal Environmental Protection Agency (EPA) delegated permit authority to state environmental agencies. In Washington, the NPDES-delegated permit authority is the Washington State Department of Ecology (Ecology). The NPDES permit also implements relevant provisions of Washington State's Water Pollution Control Law.

Municipalities with a population of more than 100,000 (based on the 1990 census) were designated as Phase I communities and must comply with Ecology's Phase I NPDES Municipal Stormwater Permit as operators of large municipal separate storm sewer systems (MS4s). Municipalities with populations of less than 100,000 (based on the 1990 census) were designated as Phase II communities and must comply with Ecology's Western Washington Phase II NPDES Municipal Stormwater Permit as operators of small and medium MS4s. More than 80 small and medium cities, including the City of Bellevue and urban portions of 5 counties in western Washington, must comply with the Phase II Permit.

The Permit authorizes the discharge of Stormwater runoff from municipal drainage systems into the state's surface waters (i.e., streams, rivers, lakes, wetlands, etc.) and groundwater as long as municipalities implement Permit-specified "best management practices" (BMPs). These BMPs are intended to protect water quality and reduce the discharge of "non-point source" pollutants to the "maximum extent practicable" (MEP). In addition, BMPs are intended to meet state AKART (all known, available, and reasonable methods of prevention, control, and treatment) waste discharge requirements.

The BMPs specified in the Permit are collectively referred to as the Stormwater Management Program (SWMP or Program) and grouped under the following Program components:

- Public Education and Outreach (E&O)
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination (IDDE)
- Controlling Runoff from New Development, Redevelopment, and Construction Sites
- Municipal Operations and Maintenance (O&M)
- Monitoring and Assessment

As a programmatic permit, the components work together to ensure protection of water quality in our streams, lakes, wetlands, and groundwater. In addition, the Permit requires reporting and, if applicable, implementation of waterbody-specific cleanup plans developed by Ecology (aka Total Maximum Daily Loads or TMDLs). To date, Ecology has not developed such plans for Bellevue water bodies.

Permit conditions are phased in over the 5-year Permit term. The current permit term is from August 2013 through August 2018. The Permit requires the City to report annually (March 31 of each year) on progress in program implementation for the prior year through a compliance report. The Permit also requires submittal of documentation that describes proposed SWMP activities for the coming year. Ecology revises and reissues the Permit at the end of the 5 year permit term. The next revision will be in 2018.

1.2 Permit History

Ecology issued Washington's first Phase II Municipal Stormwater Permit to Western Washington municipalities in 2007. Ecology issued it as one general permit with the general permit conditions applicable to all Phase II municipalities in Western Washington, including Bellevue. The Phase II Permit was appealed by several parties and the permit was modified June 17, 2009, in response to the state Pollution Control Hearings Board appeal rulings.

In August 2012, Ecology extended the first Permit to July 31, 2013, issued a new 5-year Permit (2013–2018) effective August 1, 2013, and also issued a new 2012 Ecology *Stormwater Management Manual for Western Washington* (2012 Ecology Manual), which contains Stormwater requirements for new development, redevelopment, and construction sites. The new 2013–2018 Permit retains the first Permit's SWMP structure and phased implementation approach. It continues and builds upon the first Permit's Program requirements by increasing certain Permit requirements and adding new ones.

The Phase II Permit was appealed by several parties and Ecology modified the Permit and 2012 Ecology Stormwater Management Manual in response to the state Pollution Control Hearing Board appeal rulings. Ecology issued the modified Permit and 2014 Manual in late December 2014. The modified Permit was effective January 16, 2015. The bulk of the changes address low impact development technical implementation challenges and the remainder address Permit definitions and the lack of notice and a meaningful opportunity to review draft permit documents.

The modified, 2013–18 Western Washington Phase II Municipal Stormwater Permit and modified 2014 Ecology Stormwater Management Manual are available on Ecology's Web site at:

http://www.ecy.wa.gov/programs/wg/stormwater/municipal/permitMod2014.html

1.3 2013-2018 Permit Implementation Timeline

The new, 2013-2018 Permit requirements are phased in over the course of the 5-year Permit term. New and/or increased Permit requirements and key compliance dates are described here and shown in Figure 2.

March 31st Annually

Stormwater Management Program Administration

Submit the annual report electronically using Ecology's Water Quality Permitting Portal (WQWebPortal).

August 15th Annually

Monitoring and Assessment

 Pay Bellevue's \$84,647 fee for participating in the collectively funded Regional Stormwater Monitoring Program (RSMP) to Ecology by August 15th annually.

January 1, 2014

Illicit Discharge Detection and Elimination

Complete an incident response report, containing Permit-specified information, for each illicit discharge
or connection found by or reported to the permittee. Beginning with the report due March 31, 2015,
compile and submit the incident response reports for the calendar year with the annual compliance
report.

February 2, 2016

Public Education and Outreach

 Measure the understanding and adoption of targeted behaviors from at least one target audience in one subject area and use the results to direct education and outreach resources more effectively.

December 31, 2016

Controlling Runoff from New Development, Redevelopment, and Construction Sites

- Adopt new stormwater development regulations (codes and standards) specified in the Permit and the new Ecology Stormwater Management Manual, including vesting requirements and new Low Impact Development (LID) Best Management Practices (BMPs) by December 31, 2016. Implement new plan review, inspection, and escalating enforcement processes and procedures necessary to implement the program in accordance with Permit conditions by December 31, 2016.
- Conduct a review and revision process of city-wide land use and development-related policies, codes, and standards or other enforceable documents to implement LID principles that minimize impervious surfaces, native vegetation loss, and stormwater runoff by December 31, 2016. The range of issues outlined in *Integrating LID into Local Codes: A Guidebook for Local Governments* (Puget Sound Partnership, 2012) is to be considered.
- Prepare a summary of the LID Principles review and revision process and include the summary in the Annual Report no later than March 31, 2017. The intent of the LID Principles and LID BMP requirements is to make LID the preferred and commonly-used approach to site development.

<u>December 31, 2016</u>

Municipal Operations and Maintenance

• Establish maintenance standards for facilities (private facilities per S5.C.4 and municipal facilities per S5.C.5) that are as protective as or more protective of facility function than those specified in Chapter 4, of Volume V of the 2014 Stormwater Management Manual for Western Washington.

August 1, 2017

Municipal Operations and Maintenance

Inspect all municipal catch basins at least once by August 1, 2017, and every two years thereafter.

December 31, 2017

Illicit Discharge Detection and Elimination

• Develop new IDDE field screening procedure and complete field screening for at least 40% of the municipal separate storm sewer system (MS4) by this date; complete 12% annually thereafter.

February 2, 2018

Illicit Discharge Detection and Elimination

- Update municipal storm drainage maps, if necessary, to meet modified permit requirements.
- Revise ordinance or regulatory mechanism to meet requirements of IDDE (Permit Section S5.C.3.b.)

Five - Year Permit Timeline Figure 2

Reapply for 3rd Permit End of 2nd 5-yr. Permit By Feb. 2, 2018 -update drainage maps. By Aug. 1, 2017 - inspect all municipal catchbasins. Inpect all catchbasins on a 2-year inspection frequency thereafter. and complete IDDE field screening of 40% of discharge detection & elimination (IDDE) field system; 12% annually screening procedure 1-Aug-2018 develop new illicit By Dec. 31, 2017 municipal storm for implementation of the 2013 - 2018 NPDES W. WA. Phase II Municipal Stormwater Permit thereafter. 8105 J New LID stormwater development, clear & grade standards (e.g., App. 1 & 2012 Ecology Stormwater Manual), vesting requirements and stormwater maintenance standards; Review and revise citywide codes, standards, programs, processes and documentation to require and implement: LID land use management strategies to minimize impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations; and 1-Aug-2017 Train staff and provide public outreach on the new requirements. Changes to illicit discharge program requirements (by Feb. 2, 2018) 1000 1-Aug-2016 By Dec. 31, 2016: 9105 By Feb. 2, 2016, use public education (PE) assessment results to direct PE resources 1-Aug-2015 Ecology issued a modified Permit, effective Jan. 16, 2015, and a modified Ecology Stormwater Manual in December 2014. Slos 1-Aug-2014 Timeline Legend By Jan. 1, 2014, begin compiling individual Illicit discharge incident Blos reports 1-Aug-2013 Permit Effective existing programs or adding new programs, projects and fees NPDES programs and implemented as part of the 1st 2007-2012 permit conditions necessary to comply Continue on-going Begin modifying record-keeping with new permit.

Figure 2 - Five-Year Permit Timeline

Mar. 31st deadline for submitting annual NPDES Report

Aug. 15th deadline for submitting annual Regional Stormwater Monitoring fProgram (RSMP) fee

LID = Low Impact Development Red line on the timeline indicates January 1st , start of a new year Multi-departmental implementation = Utilities, Development Services Department (DSD), Planning and Community Development (PCD), Parks and Community Services (Parks), City Attorney's Office (CAO), Information Technology (IT), Finance, Fire, ransportation, Police, Civic Services, City Clerks, and City Managers Office.

Utilities implementation

1.4 NPDES Annual Report

As noted above, the Permit requires submittal to Ecology of an Annual Report by March 31 of each year of the Permit term. The NPDES Annual Report consists of the following documents:

- Storm Water Management Program (SWMP), which is developed by the City and summarizes the
 continuing/current and planned City-wide Permit implementation activities to assure continued permit compliance
 for the coming year (2017).
 - Appendix A contains acronyms for City departments and Permit and SWMP acronyms and definitions.
 - Appendix B contains the 2016 Compliance Report.
- Compliance Report, which is a specific "fill in the blanks" spreadsheet provided by Ecology and documents the City's Permit compliance activities for the preceding calendar year (2016). The Compliance Report is very prescriptive and is completed administratively by city-wide staff at the end of the calendar year. Ecology did not require a 2013 Compliance Report for the first Annual Report submittal under the 2013-2018 Permit because 2013 was a transition year between the first and second Permits. The first Compliance Report under the current Permit was for the 2014 calendar year. The 2016 Compliance Report is the third Compliance Report under the 2013-2018 Permit and will be submitted with the SWMP.

1.5 Department Responsibilities

The Permit requirements affect departments across the City organization. To encourage collaboration and efficient use of resources, the City has chartered implementation teams for each Permit component. These teams consist of members from affected departments. The affected departments include Utilities, Development Services Department (DSD), Information Technology (IT), Civic Services, Fire, Planning and Community Development (PCD), City Attorney's Office (CAO), Finance, Parks and Community Services (Parks), Transportation (Trans.), Police, City Clerk's Office, and the City Manager's Office (CMO).

1.6 2017 SWMP Plan Organization

This SWMP Plan is the City's fourth Plan submitted under the 2013–18 Permit. The Plan describes the:

- Permit requirements;
- Continuing/current programs and activities; and,
- Planned activities to maintain compliance and implement the increased or new activities required by the 2013-2018 Permit in 2017.

The content in this SWMP Plan is based on Permit requirements and is organized similar to the Permit:

- Section 2 addresses Permit requirements for administration of the City's SWMP for 2017.
- Section 3 addresses Permit requirements for Public E&O for 2017.
- **Section 4** addresses Permit requirements for Public Involvement and Participation for 2017.
- Section 5 addresses Permit requirements for IDDE for 2017.
- Section 6 addresses Permit requirements for Controlling Runoff from New Development, Redevelopment, and Construction sites for 2017.
- Section 7 addresses Permit requirements for Municipal O&M for 2017.
- Section 8 addresses Permit requirements for the Monitoring and Assessment for 2017.

Each section includes a summary of the relevant Permit requirements and a description of continuing/current and planned compliance activities.

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2. STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

This section describes Permit requirements related to Stormwater Management Program Administration, lists the continuing and/or current programs and activities that meet Permit requirements, and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

2.1 Permit Requirements

The Permit (Section S5.A) requires the City to:

- Develop and implement a SWMP and annually prepare written documentation of the SWMP Plan for the coming year for submittal to Ecology by March 31 of each year. The purpose of a SWMP is to reduce the discharge of pollutants from the municipal Stormwater system to the maximum extent practicable, meet state AKART requirements, and protect water quality. The program is to include the actions and activities described in Sections 2 through 8 of this SWMP Plan.
- Submit annual compliance reports (for the previous calendar year) to Ecology by March 31 every year. The
 reports are to summarize SWMP implementation status and present information from assessment and evaluation
 activities conducted during the reporting period.
- Coordinate among departments within each jurisdiction to eliminate barriers to compliance with the terms of the Permit; include a written description of internal coordination mechanisms in the Annual Report.

2.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City has created an NPDES implementation group and organizational management structure. The City has
 defined roles and responsibilities and developed processes and procedures for completing updates to future
 SWMP Plans and Annual Compliance Reports.
- The City developed training materials and provides ongoing staff training to meet Permit requirements.
- The City has a designated shared-drive file to gather documentation for the Compliance Report. This is not a
 Permit requirement but helps the City administer the Permit and document City-wide compliance activities in a
 centralized location.
- The City developed a procedure to estimate NPDES costs.
- The City developed NPDES implementation budget estimates for the City's 2017-2018 budget process.
- The City continues to refine its NPDES training program, making use of outside training opportunities when available and improving methods to track and document City staff's NPDES Permit-required training.
- The City developed a written description of the internal city-wide NPDES coordination mechanisms.

2.3 Planned Activities

The City has a Stormwater Program Management Administration program, but will need to update current efforts in order to efficiently administer the City-wide Permit and maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for efficient administration and continued compliance include:

- Developing an overall strategy for code updates required by individual Permit components.
- Developing a database for City-wide compliance reporting and documentation under the new Permit.
- Summarizing SWMP administration activities and programs for Compliance Report submittals.

Table 2-1 is the work plan for 2017 SWMP Stormwater Management Program Administration activities. These tasks were developed through meetings and discussions with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

	Table 2-1. 2017 Stormwater Management Program Administration Work Plan				
Task ID	Task Description	Lead	Support	Schedule Notes	
SWMP-1	Continue to refine and implement the first Permit's Stormwater Management Program Administration activities and programs as the new Permit's requirements are implemented.	Utilities	Steering Committee	Ongoing	
SWMP-2	Develop overall strategy for code updates required by individual Permit components	Utilities + PCD/DSD + CAO	All	Ongoing	
SWMP-3	Develop a database for City-wide compliance reporting and documentation under the new Permit	Utilities	All	Ongoing The City utilizes shared drives to collate documentation.	
SWMP-4	Review Permit definitions against City definitions and application to Permit requirements and, if necessary, develop a plan for handling inconsistencies.	Utilities + DSD/PCD +CAO	All	Ongoing Began in 2015 after Ecology issued the modified Permit and Ecology Stormwater Management Manual.	
SWMP-5	Summarize annual activities for the "Stormwater Management Program Administration" component of the Annual Report; identify any updates to Program document.	Utilities	All	The Annual Report submittal is due on or before March 31 of each year.	

3. PUBLIC EDUCATION AND OUTREACH

This section describes Permit requirements related to Public Education and Outreach (E&O), lists the continuing and/or current programs and activities that meet Permit requirements, and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

3.1 Permit Requirements

The Permit (Section S5.C.1) requires the City to:

- Implement an E&O program designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts and encourage the public to participate in stewardship activities. The program shall be designed to educate target audiences (e.g., the general public, businesses, homeowners, students, developers, City employees, etc.) about stormwater impacts and provide specific actions they can take to minimize the problem.
- Create stewardship opportunities to encourage participation in activities such as stream teams, storm drain marking, volunteer monitoring, riparian plantings, and education activities.
- Measure the understanding and adoption of the targeted behaviors for at least one targeted audience in at least one subject area to use in directing E&O sources more effectively, as well as to evaluate changes in adoption of the targeted behaviors. Use the resulting measurements to direct E&O resources no later than February 2, 2016. This requirement can be met individually or as a member of a regional group.
- Track and maintain records of Public E&O activities.

3.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City conducts numerous E&O activities that address stormwater management. These programs directly
 address general public, residents/homeowners, businesses, developers, contractors, engineers, and some
 industries, and include but are not limited to:
 - Storm drain marking of public storm drains, with expansion to private storm drains
 - Puget Sound Starts Here campaign, including a variety of programs and educational activities, such as Don't Drip & Drive
 - · General outreach and communication, including theater advertisements
 - Used motor oil and hazardous waste recycling program
 - Elementary school workshops program
 - Powerful Choices for the Environment targeting middle school students
 - Stormwater maintenance and BMPs technical outreach through the municipal stormwater operations and maintenance and private drainage inspection programs
 - Public E&O on hazards associated with illicit discharges and improper disposal of waste
 - DSD one-stop resource center provides information and consultations with staff from across the City on development regulations and Permit requirements

- The City conducted surveys and focus groups measuring attitudes about stormwater pollution and car wash behavior to create an awareness baseline from which to measure future improvements. The City is tracking behavior improvements through the Fundraising Carwash Research project.
- The City tracks its E&O efforts.

3.3 Planned Activities

The City has a Public E&O program but will need to update current efforts in order to maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for continued compliance include:

- Collaborating with other NPDES municipalities to identify appropriate program evaluation techniques.
- Developing strategies and priorities to supplement existing education activities.
- Developing a strategy/process to evaluate understanding and adoption of target behaviors and use the measurements to direct future E&O efforts.
- Refining E&O program as needed to address new Permit elements, such as low-impact development (LID).
- Summarizing Public E&O activities and programs for the Annual Reports.
- Discontinue supporting the City's fundraising car wash check-out kit program. Recent evaluations have shown
 that even through issuing appropriate carwash kits for fundraising efforts, the kits were not being properly
 installed and were not effectively serving the purpose of the program.

Table 3-1 is the work plan for the 2017 SWMP Public E&O activities. These tasks were developed through meetings and communications with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

	Table 3-1. 2017 Public Education and Outreach Work Plan					
Task ID	Task Description	Lead	Support	Schedule Notes		
EDUC-1	Continue to refine and implement the first Permit's Public E&O activities and programs as the new Permit's requirements are implemented.	Utilities + DSD	All	Ongoing		
EDUC-1.1	Refine E&O program as needed to address new Permit elements, such as changes to codes and standards to implement low impact development (LID) principles and BMP requirements	Utilities + DSD	All	Ongoing		
EDUC-2	Measure and evaluate the understanding and adoption of targeted behaviors for one targeted audience in one subject area of Bellevue's Public E&O Program or as a member of a regional group. Use the information developed to direct public E&O resources more effectively.	Utilities + DSD	All	City of Bellevue fundraising car wash research analysis completed January 2016.		
EDUC-3	Summarize annual activities for the "Public Education and Outreach" component of the Annual Report; identify any updates to Program document.	Utilities + DSD	All	The Annual Report submittal is due on or before March 31 of each year		

4. PUBLIC INVOLVEMENT AND PARTICIPATION

This section describes Permit requirements related to Public Involvement and Participation, lists the continuing and/or current programs and activities that meet Permit requirements and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

4.1 Permit Requirements

The Permit (Section S5.C.2) requires the City to:

- Provide ongoing opportunities for Public Involvement and Participation through advisory boards and commissions, public hearings, and watershed committees; participation in developing rate structures and budgets; or other similar activities. The public must be able to participate in the decision-making processes involving the development, implementation, and update of the SWMP.
- Make the SWMP Plan and Annual Compliance Report available to the public, including posting on the City's Web site. Make other documents required to be submitted to Ecology in response to Permit conditions available to the public.

4.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City has defined a series of activities intended to meet the Permit requirements for public involvement in development of the 2017 SWMP Plan, including a public meeting on the draft 2017 SWMP Plan, and briefings to the Environmental Services Commission on the Program and/or Program elements.
- The City's SWMP Plans and Compliance Reports are made available to the public on the City Web site.

4.3 Planned Activities

Actions recommended for continued compliance include:

- Implementing Public Involvement and Participation opportunities.
- Summarizing Public Involvement and Participation activities and programs for the Compliance Report submittals.
- Conduct a local Stormwater informational survey or participation in a regional Stormwater survey to build off previous information collected.

Table 4-1 is the work plan for the 2017 SWMP Public Involvement and Participation activities. These tasks were developed through meetings and communications with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

Table 4-1. 2017 Public Involvement Work Plan						
Task ID	Task Description	Lead	Support	Schedule Notes		
PIP-1	Continue to refine and implement the first Permit's Public Involvement and Participation activities and programs as the new Permit's requirements are implemented.	Utilities	All	Ongoing		
PIP-2	Summarize annual activities for the "Public Involvement and Participation" component of the Annual Report; identify any updates to Program document.	Utilities	All	The Annual Report submittal is due on or before March 31 of each year.		

5. ILLICIT DISCHARGE DETECTION AND ELIMINATION

This section describes the Permit requirements related to Illicit Discharge Detection and Elimination (IDDE), lists the continuing and/or current programs and activities that meet Permit requirements, and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

5.1 Permit Requirements

The Permit (Section S5.C.3) requires the City to:

- Implement an ongoing program designed to prevent, detect, characterize, trace, and eliminate illicit discharges and illicit connections into the permittee's municipal separate storm sewer system (MS4). An illicit discharge means "any discharge to a MS4 that is not composed entirely of stormwater or of non-stormwater discharges allowed as specified in this permit (S5.C.3)" and illicit connection means "any infrastructure connection to the MS4 that is not intended, permitted or used for collecting and conveying stormwater or non-stormwater discharges allowed as specified in this permit (S5.C.3). Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the MS4."
- Maintain a storm sewer system map that includes stormwater system information identified in the Permit (e.g., outfalls, receiving waters, etc.).
- Implement ordinances that prohibit illicit discharges and illicit connections and which contain escalating
 enforcement procedures and actions. The ordinances or other regulatory mechanisms shall be revised, if needed
 to meet new Permit requirements, no later than February 2, 2018.
- Develop procedures for and complete field screenings of at least 40 percent of the MS4 no later than December 31, 2017, and on average 12 percent each year thereafter.
- Publicly list and publicize a hotline or other local telephone number for public reporting of spills and other illicit discharges.
- Track through closeout illicit discharge and connection reports and the actions taken in response to them, including enforcement actions. Beginning January 1, 2014, include individual descriptions of actions taken for each illicit discharge found by or reported to the permittee and attach to the annual compliance report.
- Maintain an ongoing training program for City staff that may come into contact with or respond to illicit
 connections or discharges. Train program staff on proper IDDE response procedures and processes and train
 municipal field staff to recognize and report illicit discharges.
- Inform public employees, businesses, and general public of hazards associated with illegal discharges and improper disposal of waste.
- Summarize all illicit discharges and connections reported to the City and include a description of the response
 actions taken for each illicit discharge and connection according to the Permit-specified timeline, including
 enforcement actions, in the Compliance Report.

5.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City maintains a storm sewer map in multiple electronic formats and has procedures for keeping the MS4
 map and inventory up to date. The map is updated with new facilities or corrected for inconsistencies based on
 field verification.
- The City reviewed and modified its IDDE program to ensure consistent City-wide implementation of the Permit requirements.
- The City amended City codes and revised procedures to implement the Permit's illicit discharge and escalating enforcement requirements from the 2007-2013 Permit. The amended codes, located online at www.bellevuewa.gov/doc_library.htm, include:
 - 1. Ordinance 5905, Bellevue City Code Chapter 24.06, Storm and Surface Water Utility Code
 - 2. Ordinance 5906, Bellevue City Code Chapter 23.76, Clearing and Grading Code
 - 3. Ordinance 5907, Bellevue City Code Chapter 1.18.075, Civil Violations Code
- The City developed a Stormwater Pollution Communications Plan and additional outreach materials to increase awareness of stormwater pollution impacts and empower citizens to adopt new behaviors that prevent pollutants from entering the storm drainage system and downstream waters.
- The City developed submittal materials for the new Construction Stormwater Pollution Prevention Plan (SWPPP) requirements that address illicit discharges from construction sites.
- The City implemented the stormwater outfall illicit discharge screening and source control program requirements from the 2007-2013 Permit. This included performing a storm drainage outfall reconnaissance inventory, prioritizing receiving waters for inspection, and implementing field screening and source control activities for prioritized receiving waters.
- The City developed illicit discharge awareness and response training materials and implemented a training
 program for City staff. In 2012, the City developed outreach materials to prevent water quality impacts from fire
 prevention confidence testing (e.g., fire sprinkler system, fire pump, and other required system testing activities).
- The City has a 24-hour emergency response line for public reporting of spills and other illicit discharges (425-452-7840).
- The City completed mapping of Bellevue's 2012 annexed area's stormwater facilities by July 1, 2014, per the schedule in the 2012 Compliance Report, Question 2.
- The City worked with Ecology to develop a voluntary incident report form for illicit discharge and illicit connection that meets the Permit's new documentation requirements. The City trained staff and began implementing the new documentation requirements in 2014.
- The City implemented procedures for field screenings of at least 40 percent of the MS4 no later than December 31, 2017, and on average 12 percent each year thereafter.

5.3 Planned Activities

The City currently has an IDDE program, but will need to update current efforts in order to maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for continued compliance include:

- Updating the municipal storm system map to address data gaps and new Permit conditions.
- Updating codes and ordinances to address new or modified Permit requirements for the IDDE program.
- Continue revising the IDDE program, processes, and procedures to implement new IDDE requirements, including those for documenting and reporting illicit discharges and connections and those for the IDDE Field Screening Program.
- Updating IDDE training curricula for all municipal field staff.
- Summarizing IDDE activities and programs for the Compliance Report submittals.

Table 5-1 is the work plan for the 2017 SWMP IDDE activities. These activities were developed through meetings and communications with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

	Table 5-1. 2017 Illicit Discharge Detection and Elimination Work Plan					
Task ID	Task Description	Lead	Support	Schedule Notes		
IDDE-1	Continue to refine and implement the first Permit's IDDE activities and programs as the new Permit's requirements are implemented.	Utilities + DSD + Trans	All	Ongoing		
IDDE-2	Review and update storm system mapping practices and procedures to address new Permit requirements, definitions and data gaps.	Utilities	IT	Complete by February 2, 2018		
IDDE-3	Review and amend codes to comply with IDDE Permit requirements. Update informational IDDE brochures.	Utilities + DSD	All	Complete by February 2, 2018		
IDDE-4	Review and update IDDE program, processes, and procedures as needed to implement new IDDE requirements.	Utilities + DSD + Trans	All	Ongoing		
IDDE-4.1	Revise the IDDE field screening program by developing methodology and completing field screening of 40% of the municipal stormwater system to detect and eliminate illicit discharges. Develop reporting tool to easily summarize results.	Utilities	All	Complete by December 31, 2017		
IDDE-5	Update and continue implementing IDDE training for municipal field staff, including those responsible for responding to illicit discharges and staff whose work allows them to observe and report illicit discharges.	Utilities +DSD + Trans	All	Ongoing		
IDDE-6	Summarize annual activities for the "Illicit Discharge Detection and Elimination" component of the Annual Report; identify any updates to Program document.	Utilities + DSD + Trans	All	The Annual Report submittal is due on or before March 31 of each year		

6. CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT, AND CONSTRUCTION SITES

This section describes the Permit requirements related to Controlling Runoff from New Development, Redevelopment, and Construction Sites, lists the continuing and/or current programs and activities that meet Permit requirements, and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

6.1 Permit Requirements

The Permit (Section S5.C.4) requires the City to:

- Implement and enforce an updated program to reduce pollutants in stormwater runoff to the municipal separate storm sewer system (MS4) from new development, redevelopment, and construction site activities no later than December 31, 2016. The program must apply to private and public development projects, including roads, and address construction and development-related pollutant sources.
- Adopt new stormwater development regulations (codes and standards) specified in the Permit and the new Ecology Stormwater Management Manual, including vesting requirements and new Low Impact Development (LID) Best Management Practices (BMPs) by December 31, 2016. Implement new plan review, inspection, and escalating enforcement processes and procedures necessary to implement the program in accordance with Permit conditions by December 31, 2016.
- Conduct a review and revision process of City-wide land use and development-related policies, codes, and standards or other enforceable documents to implement LID principles that minimize impervious surfaces, native vegetation loss and stormwater runoff by December 31, 2016. The range of issues outlined in *Integrating LID into Local Codes: A Guidebook for Local Governments* (Puget Sound Partnership, 2012) is to be considered.
- Prepare a summary of the Low Impact Development Principles review and revision process and include the summary in the Annual Report no later than March 31, 2017. The intent of the LID Principles and LID BMP requirements is to make LID the preferred and commonly used approach to site development.
- Adopt regulations (codes and standards) to verify adequate long-term operations and maintenance (e.g., post-construction) of new, private, permanent stormwater facilities and BMPs (i.e., private drainage system inspections) in accordance with Permit conditions, including an annual inspection frequency and/or approved alternative inspection frequency and maintenance standards for private drainage systems as protective as those in Chapter IV of the new Ecology Manual by December 31, 2016.
- Perform annual inspections of private, permanent stormwater treatment and flow control facilities that were permitted and constructed in accordance with the Permit requirements effective January 1, 2010.
- Participate in a watershed-scale stormwater planning process led by a Phase I county if your Phase II jurisdiction is located within the selected watershed. NOTE: Bellevue is not located within a selected watershed.
- Provide copies of the Notice of Intent (NOI) for construction or industrial activities to representatives of the proposed new development and redevelopment.
- Provide training to staff on updated codes, standards, and procedures, and create public education and outreach materials.
- Summarize annual activities for the "Controlling Runoff" component of the Annual Compliance Report.

6.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City implements a program to reduce pollutants in stormwater runoff to the MS4 from new development, redevelopment, and construction site activities. The City enforces this program though the City code.
- The City amended City codes and revised standards to meet the first Permit's requirements for development, redevelopment, construction, and post-construction stormwater management. The development-related code amendments became effective January 1, 2010. The amended codes and revised standards, located online at www.bellevuewa.gov/doc_library.htm, include:
 - 1. Ordinance 5905, Bellevue City Code Chapter 24.06, Storm and Surface Water Utility Code
 - 2. 2010 Surface Water Engineering Standards (updated annually)
 - 3. Ordinance 5906, Bellevue City Code Chapter 23.76, Clearing and Grading Code
 - 4. 2010 Clearing and Grading Development Standards
 - 5. Ordinance 5907, Bellevue City Code Chapter 1.18.075, Civil Violations Code
- The City adopted the 2005 Ecology Stormwater Management Manual of Western Washington as the City-wide stormwater standard for development, redevelopment, and construction projects as part of the code amendments, effective January 1, 2010 and adopted the 2012 (amended 2014) version of the manual in December of 2016.
- The City modified its plan review, inspection, enforcement, and documentation procedures to address the first Permit's requirements.
- The City modified its development services information management system to document development plan review, inspection, and enforcement actions per the first Permit's requirements.
- The City provided training to staff on the new regulations and processes and procedures required by the first Permit.
- The City modified its post-construction inspection program for private stormwater facilities (i.e., the Private Drainage Inspection Program) to meet Permit requirements for inspection and documentation.
- The City revised its maintenance standards for private and public stormwater and surface water systems to meet the first Permit's requirements. The revised standards are located online at www.bellevuewa.gov/doc_library.htm.
- The City continues to make information about and copies of Ecology's application forms for Construction NPDES and Industrial NPDES permits available to the public at the Permit Center.
- The City developed a summary of LID barriers and a report on LID practices and submitted these documents with the 2010 Compliance Report.
- The City began the processes to implement the Permit requirements for Low Impact Development Principles and Best Management Practices (BMPs – e.g., by adopting the new Ecology Stormwater Management Manual) in 2014.
- The City included funding in the 2015-2017 budgets to implement the new Ecology Manual and LID Principles requirements.
- Summarizing annual activities for the "Controlling Runoff from New Development, Redevelopment, and Construction Sites" component of the Annual Report (including the post-construction private drainage system inspection and maintenance requirements), including updates to the SWMP Plan.
- Updating codes and standards to reflect the new Manual and Permit requirements.
- Developing new standardized plan review, inspection, enforcement, and compliance documentation and tracking processes and procedures to reflect the new Manual and Permit requirements.
- Conducted a review and revision process of City land use and development-related regulations to incorporate low
 impact development principles of minimizing impervious surfaces and native vegetation loss. 6319,
 Transportation Development Code; 6318, Clearing and Grading Code; 6323, Bellevue Land Use Code.
 Ordinance 6321 amended the Storm and Surface Water Code to align with Appendix I.

Adoption of DOE 2014 SWMMWW drainage system maintenance standards.

6.3 Planned Activities

The City has a Controlling Runoff from New Development, Redevelopment, and Construction Sites program, but will need to update current efforts in order to maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for continued compliance include:

- Conducting staff training and public education and outreach on implementing the 2014 SWMMWW (Stormwater Management Manual for Western Washington).
- Participating in NPDES permittee regional forums and activities to assess and influence stormwater management and planning requirements in future permits.

Table 6-1 is the work plan for the 2017 SWMP activities related to Controlling Runoff from New Development, Redevelopment, and Construction Sites. These tasks were developed through meetings and conversations with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

Table 6-1	. 2017 Controlling Runoff From New Developmer	nt, Redevelopm	ent, and Cons	truction Sites Work Plan
Task ID	Task Description	Lead	Support	Schedule Notes
CTRL-1	Continue to refine and implement the first Permit's Controlling Runoff from New Development, Redevelopment, and Construction Sites activities and programs as the new Permit's requirements are implemented	Utilities + DSD	All	Ongoing
CTRL-2	Adopt the new modified Ecology Stormwater Management Manual for Western Washington (Appendix 1 of the Permit) or an equivalent Phase I Manual	Utilities + DSD	CAO, Trans, Parks	DOE SWMMWW adopted December 2016
CTRL-2.1	Affirm Manual option: the new modified Ecology Manual or equivalent Phase I Manual	Utilities + DSD	CAO, Trans, Parks	DOE SWMMWW adopted December 2016
CTRL-2.2	Identify steps to amend development codes for consistency with new stormwater and vesting requirements (Permit and 2012 Ecology Manual); includes clearing and grading and stormwater codes	Utilities	CAO	Completed December 2016
CTRL-2.3	Identify steps to revise development standards; stormwater, clearing and grading, maintenance	Utilities + DSD	CAO	Completed December 2016
CTRL-2.4	Identify changes in development services processes to implement new stormwater development requirements. Develop tools for permit reviewers and applicants to implement criteria for low impact development (LID) best management practices (BMPs) including BMP selection, design, infeasibility, and competing needs criteria, and BMP limitations.	Utilities + DSD	CAO, Trans, Parks	Ongoing Began in 2015
CTRL-3	Conduct a review and revision process of City land use and development-related regulations to incorporate low impact development principles of minimizing impervious surfaces and native vegetation loss.	DSD + PCD + Utilities	Fire, Trans, Parks, CAO	Completed December 2016
CTRL-3.1	Conduct an opportunity analysis of City-wide regulations (codes and standards) with public input and consultant support to identify recommended areas of focus, criteria, public review process and schedule.	DSD + PCD + Utilities	Fire, Trans, Parks, CAO	Completed December 2016

Table 6-1	Table 6-1. 2017 Controlling Runoff From New Development, Redevelopment, and Construction Sites Work Plan				
Task ID	Task Description	Lead	Support	Schedule Notes	
CTRL-3.2	Coordinate LID Principles opportunity analysis with the City's current Comprehensive Plan Update project and, if needed, modify policies to incorporate LID Principles.	DSD + PCD + Utilities	Fire, Trans, Parks, CAO	Opportunity analysis completed in August 2015. LID Principles Project completed December 2016	
CTRL-5	Participate in NPDES permittee regional forums and activities to assess and influence stormwater management and planning requirements in future permits, especially those associated with the new LID requirements and the new Phase I Permit multijurisdiction watershed scale stormwater planning requirement that involves some Phase II permittees (not Bellevue) this Permit term.	Utilities	CAO,CMO	Ongoing	
CTRL-6	Continue to support Ecology by distributing copies of the Notice of Intents for Construction Activity and Industrial Activity.	Utilities +DSD	CAO	Ongoing	
CTRL-7	Summarize annual activities for "Controlling Runoff from New Development, Redevelopment, and Construction Sites" component of the Annual Report; identify any updates to Program document.	Utilities + DSD + PCD	All	The Annual Report submittal is due on or before March 31 of each year.	

7. MUNICIPAL OPERATIONS AND MAINTENANCE

This section describes the new Permit requirements related to Municipal Operations and Maintenance (O&M), lists the continuing and/or current programs and activities that meet Permit requirements and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

7.1 Permit Requirements

The Permit (Section S5.C.5) requires the City to:

- Implement an O&M program with the ultimate goal of preventing or reducing pollutants in stormwater runoff from MS4 and municipal O&M activities.
- Implement maintenance standards for the MS4 that are at least as protective as those specified in the 2012 Ecology Manual, no later than December 31, 2016.
- Perform inspections of stormwater flow control and treatment facilities and catch basins in accordance with Permit requirements, unless previous inspection data show that a reduced frequency is justified.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands maintained by the City and from municipal O&M activities, including but not limited to streets, parking lots, roads, or highways owned or maintained by the City. Train staff to implement the processes and procedures and document that training.
- Implement Stormwater Pollution Prevention Plans (SWPPPs) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the City.
- Summarize annual activities for the "Municipal Operations and Maintenance" component of the Compliance Report, including any updates to the SWMP Plan.

7.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City implements municipal stormwater facility inspections at permit-specified frequencies.
- The City implements inspection, operation, and maintenance processes and procedures for Bellevue-owned or operated stormwater catch basins and flow control and treatment facilities to meet Permit requirements.
- The City revised storm drainage maintenance standards for public and private drainage systems to comply with the first Permit requirements.
- The City updated its O&M program and implemented procedures to reduce stormwater impacts from the operation and maintenance of stormwater and surface water systems, streets, parking lots, roads, and lands owned or maintained by the City.
- The City created and implemented SWPPPs for seven City properties with heavy equipment and material storage facilities onsite.
- The City implemented a program for annual inspection of City-owned flow control and runoff treatment facilities, once-per-Permit-term inspection of municipal catch basins, and for performing identified maintenance within prescribed Permit timelines.
- The City prepared a report and schedule for maintenance of stormwater flow control and treatment ponds whose maintenance requires additional time to complete (e.g., beyond Permit-prescribed maintenance timelines), as

allowed by the Permit. This report and schedule was submitted with the City's 2012 Compliance Report (report is titled "*Performance of Detention Pond Facility Maintenance*"). Maintenance of the ponds was completed as scheduled by November 2015, and updated information was part of the City's 2016 Compliance Report.

- The City completed implementation of NPDES requirements for Bellevue's 2012 annexed areas' stormwater facilities, including mapping requirements, by July 1, 2014, the scheduled completion date submitted with the 2012 Compliance Report.
- The City modified and implemented the O&M training program to provide ongoing City-wide pollution prevention training for municipal field staff.
- The City is assessing alternative inspection approaches to meet the new 2-year catch basin inspection frequency and improvements to its municipal stormwater operation and maintenance programs in order to maintain compliance with the Permit requirements and meet other stormwater program and workload needs.
- The City allocated additional funds in the 2017-2018 budgets to meet new municipal operation and maintenance program requirements.

7.3 Planned Actions

The City has a Municipal Operations and Maintenance program, but will need to update current efforts in order to maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for continued compliance include:

- Inspecting all municipal stormwater catch basins by August 1, 2017.
- Refining catch basin inspection frequency to meet new Permit requirement of once every 2 years by August 1, 2017.
- Administratively adopting maintenance standards identified in the new 2012 Ecology Stormwater Manual (amended in December 2014).
- Maintaining stormwater ponds per the schedule in the Performance of Detention Pond Facility Maintenance supplement to the 2012 Compliance Report.
- Refining practices, policies, and procedures that reduce stormwater impacts associated with runoff from lands owned by the City.
- Updating SWPPPs when conditions change at City facilities and to refine practices and training.

Table 7-1 is the work plan for the 2017 SWMP O&M for Municipal Operations activities. The tasks were developed through meetings and conversations with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

	Table 7-1. 2017 Municipal Operations and Maintenance Work Plan					
Task ID	Task Description	Lead	Support	Schedule Notes		
MO&M-1	Continue to refine and implement the first Permit's O&M for Municipal Operations activities and programs as the new Permit's requirements are implemented.	Utilities	All	Ongoing		
MO&M-2	Inspect all municipal stormwater catch basins at least once by August 1, 2017 (4 years).	Utilities	Not applicable	Completed in January 2017		
MO&M-3	Modify the inspection and operations and maintenance program for the municipal separate storm sewer system (MS4) to implement new permit requirements.	Utilities	Fire, IT, Civic Svcs, Parks, Trans	Ongoing		
MO&M-3.1	Determine if an alternative inspection frequency for municipal catch basins can be supported.	Utilities	IT	Ongoing Complete by August 1, 2017		

	Table 7-1. 2017 Municipal Operations and Maintenance Work Plan					
Task ID	Task Description	Lead	Support	Schedule Notes		
MO&M-3.2	Administratively adopt new maintenance standards for stormwater facilities from the new Ecology Stormwater Management Manual.	Utilities	CAO	Completed in December of 2016.		
MO&M-3.3	Review and modify processes and procedures and provide training as needed to implement the new stormwater maintenance standards, reduce stormwater impacts from all lands owned by the City, implement Stormwater Pollution Prevention Plans and document compliance.	Utilities	Fire, IT, Civic Svcs, Parks, Trans	Ongoing		
MO&M-4	Implement the maintenance schedule for municipal stormwater ponds per the Performance of Detention Pond Facility Maintenance supplement to Question 63 of the 2012 Compliance Report.	Utilities	Not applicable	Completed in November of 2015		
MO&M-5	Summarize annual activities for "Municipal Operations and Maintenance" component of the Annual Report; and identify any updates to Program document.	Utilities	All	The Annual Report submittal is due on or before March 31 of each year		

8. MONITORING AND ASSESSMENT

This section describes the new Permit requirements related to water quality Monitoring and Assessment, lists the continuing and/or current programs and activities that meet Permit requirements, and identifies the planned activities recommended for continued compliance with the new 2013-18 Permit.

8.1 Permit Requirements

The Permit (Section S8) requires the City to:

- Where applicable, conduct water quality monitoring required in water quality cleanup plans issued by Ecology. NOTE: Ecology has not issued any water quality cleanup plans for water bodies in Bellevue.
- Conduct sampling or testing required for characterizing illicit discharges pursuant to the Program's IDDE conditions.
- By December 1, 2013, notify Ecology as to which of the following options are to be adopted for status and trends monitoring for each Permit cycle for small streams and marine nearshore status and trends monitoring in Puget Sound
 - Option 1: Pay into a collective fund to implement a Regional Stormwater Management Program (RSMP) for small streams and marine nearshore status trends due to Ecology annually beginning August 15, 2014. (Bellevue's cost per Ecology: \$30,009)
 - Option 2: Beginning July 31, 2014, conduct wadeable stream water quality, benthos, habitat, and sediment chemistry monitoring at the frequencies as specified in the Permit. In addition, beginning in October 2015, conduct sediment chemistry, mussel, and bacteria monitoring according to the Permit requirements. All the data and analyses should be reported annually according to the Ecology approved Quality Assurance Project Plans (QAPPs).
- By December 1, 2013, notify Ecology which of the following options are to be adopted for SWMP effectiveness studies for each Permit cycle:
 - Option 1: Pay into a collective fund to implement RSMP effectiveness studies due to Ecology annually beginning August 15, 2014. (Bellevue's cost per Ecology: \$50,001)
 - Option 2: By February 2, 2014, submit a draft stormwater discharge monitoring QAPP to Ecology describing
 why selected discharge monitoring locations are of interest for monitoring and evaluations. Monitor at
 locations chosen and submitted in the Annual Reports that were due March 31, 2011.
- Pay into a collective fund to implement the RSMP Source Identification Information Repository (SIDIR) due to Ecology annually beginning August 15, 2014. (Bellevue's cost per Ecology: \$4,637)
- Provide a description of stormwater monitoring or studies conducted by the City during the reporting period. If stormwater monitoring was conducted on behalf of the City, or if studies or investigations conducted by other entities were reported to the City, a brief description of the type of information gathered or received shall be included in the Compliance Report.

8.2 Continuing/Current Activities

The City currently implements activities and programs that meet the Permit requirements. The City will continue to implement these programs and activities as new and/or increased requirements in the 2013-18 Permit are implemented. The current compliance activities associated with the above Permit requirements include:

- The City submitted monitoring reports required by the first Permit with the 2010 Compliance Report.
- The City participated in a variety of regional and state monitoring forums to develop feasible and effective monitoring requirements for the new Permit. As a result of these forums' work, Ecology included a regional stormwater monitoring option in the new Permit.
- The City conducts sampling or testing required for characterizing illicit discharges pursuant to the Permit's IDDE program conditions.
- The City reviews water quality monitoring data and/or reports conducted by or for the City to determine if potential water quality violations are identified.
- The City reports potential water quality violations to Ecology within 30 days of becoming aware of the potential violations per the Permit's Compliance with Standards condition S4F.
- The City notified Ecology of its intent to participate in the Regional Stormwater Monitoring Program (RSMP) and began providing program funding in 2014. The City provided a payment of \$84,647 to Ecology to fund the RSMP. The payments will occur annually for four years of the Permit cycle (2014-2017). The payment covers Status and Trends Monitoring (\$30,009), effectiveness studies (\$50,001), and source identification and diagnostic monitoring (\$4,637).

8.3 Planned Activities

The City has a Monitoring and Assessment program, but will need to update current efforts in order to maintain compliance as the new requirements are phased in over the 5-year Permit term (2013-18). Actions recommended for continued compliance include:

- Making annual payments to Ecology to participate in the Regional Stormwater Monitoring Program.
- Providing descriptions of stormwater monitoring conducted by the City in annual compliance reports.
- Participating in regional and state monitoring forums to inform future permits.

Table 8-1 is the work plan for the 2017 SWMP Monitoring and Assessment activities. The tasks were developed through meetings and discussions with staff from affected City departments. City department references used in the "lead" and "support" columns are defined in Appendix A.

	Table 8-1. 2017 Monitoring and Assessment Work Plan						
Task ID	Task Description	Lead	Support	Schedule Notes			
MNTR -1	Continue to refine and implement the first Permit's Monitoring and Assessment activities and programs as the new Permit's requirements are implemented.	Utilities	All	Ongoing			
MNTR-2	Meet the new Permit's Section 8 Monitoring and Assessment requirements by participating in the Regional Stormwater Monitoring Program (RSMP).	Utilities	CAO	Ongoing			
MNTR-3	Participate in regional and state monitoring forums and future legislative actions as needed to ensure scientifically sound analysis and appropriate use of monitoring data in stormwater management and future Permits.	Utilities	СМО	Ongoing.			
MNTR-4	Summarize annual activities for "Monitoring and Assessment" component of the Annual Report; identify any updates to Program document.	Utilities	All	The Annual Report submittal is due on or before March 31 of each year			

APPENDIX A

- Acronyms for City Departments
- Permit Acronyms and Definitions (from the modified Western Washington Phase II Permit, effective January 16, 2015)

Acronyms for City Departments

City Departments

All: Utilities, Parks, Finance, CAO, PCD, DSD, IT, Trans, HR, Civic Services, Fire, City Clerks, Police

All: Also used as a general reference for staff from multiple City departments who support lead departments in

implementing the SWMP Plan

CAO: City Attorney's Office **CMO:** City Manager's Office

DSD: Development Services Department

HR: Human Resources

IT: Information Technology

Parks: Parks and Community Services

PCD: Planning and Community Development

Risk: Risk Management

Trans: Transportation

CCO: City Clerk's Office

CMO: City Manager's Office

Permit Acronyms and Definitions

The following definitions and abbreviations are taken directly from the Phase II Permit or from this SWMP Plan and are reproduced here for the reader's convenience.

40 CFR means Title 40 of the Code of Federal Regulations, which is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the U.S. federal government.

AKART means all known, available, and reasonable methods of prevention, control, and treatment. See also State Water Pollution Control Act, Revised Code of Washington (RCW) Chapters 90.48.010 and 90.48.520.

All known, available and reasonable methods of prevention, control and treatment (AKART) refers to the State Water Pollution Control Act, Chapter 90.48.010 RCW and Chapter 90.48.520 RCW.

Applicable TMDL means a total maximum daily load (TMDL) that has been approved by EPA on or before the issuance date of this Permit, or prior to the date that Ecology issues coverage under this Permit, whichever is later.

Beneficial uses means uses of waters of the state, which include but are not limited to use for domestic, stock watering, industrial, commercial, agricultural, irrigation, mining, fish and wildlife maintenance and enhancement, recreation, generation of electric power and preservation of environmental and aesthetic values, and all other uses compatible with the enjoyment of the public waters of the state.

Best management practices (BMPs) are the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by Ecology that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to waters of Washington State.

BMP means best management practice.

Bypass means the diversion of stormwater from any portion of a stormwater treatment facility.

Census-defined urban area means urbanized area.

Circuit means a portion of an MS4 discharging to a single point or serving a discrete area determined by traffic volumes, land use, topography, or the configuration of the MS4.

Component or Program Component means an element of the Stormwater Management Program listed in S5 Stormwater Management Program for Cities, Towns, and Counties or S6 Stormwater Management Program for Secondary Permittees, S7 Compliance with Total Maximum Daily Load Requirements, or S8 Monitoring of this Permit.

Conveyance system means that portion of the municipal separate storm sewer system designed or used for conveying stormwater.

Co-Permittee means an owner or operator of an MS4 that is in a cooperative agreement with at least one other applicant for coverage under this Permit. A Co-Permittee is an owner or operator of a regulated MS4 located within or in proximity to another regulated MS4. A Co-Permittee is only responsible for Permit conditions relating to discharges from the MS4 the Co-Permittee owns or operates. See also 40 CFR 122.26(b)(1).

CWA means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et seq.).

Director means the Director of the Washington State Department of Ecology, or an authorized representative.

Discharge Point means the location where a discharge leaves the Permittee's MS4 through the Permittee's MS4 facilities/BMPs designed to infiltrate.

Ecology means the Washington State Department of Ecology.

Entity means a governmental body, or a public or private organization.

E&O means education and outreach.

EPA means the U.S. Environmental Protection Agency.

General Permit means a permit that covers multiple dischargers of a point source category within a designated geographical area, in lieu of individual permits being issued to each discharger.

Groundwater means water in a saturated zone or stratum beneath the surface of the land or below a surface water body. Refer to Washington Administrative Code (WAC) Chapter 173-200.

Hazardous substance means any liquid, solid, gas, or sludge, including any material, substance, product, commodity, or waste, regardless of quantity, that exhibits any of the physical, chemical, or biological properties described in WAC 173-303-090 or WAC 173-303-100.

Heavy equipment maintenance or storage yard means an uncovered area where any heavy equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are washed or maintained, or where at least five pieces of heavy equipment are stored on a long-term basis.

Highway means a main public road connecting towns and cities.

Hydraulically near means runoff from the site discharges to the sensitive feature without significant natural attenuation of flows that allows for suspended solids removal. See Appendix 7 Determining Construction Site Sediment Damage Potential for a more detailed definition.

Hyperchlorinated means water that contains more than 10 milligrams/liter chlorine.

IDDE means Illicit Discharge Detection and Elimination.

Illicit connection means any infrastructure connection to the MS4 that is not intended, permitted, or used for collecting and conveying stormwater or non-stormwater discharges allowed as specified in this Permit (S5.C.3 and S6.D.3). Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the MS4.

Illicit discharge means any discharge to an MS4 that is not composed entirely of stormwater or of non-stormwater discharges allowed as specified in this Permit (S5.C.3 and S6.D.3).

Impervious surface means a non-vegetated surface area that either prevents or retards the entry of water into the soil mantle as under natural conditions prior to development. A non-vegetated surface area that causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions prior to development. Common impervious surfaces include, but are not limited to, rooftops, walkways, patios, driveways, parking lots or stormwater areas, concrete or asphalt paving, gravel roads, packed earthen materials, and oiled, macadam or other surfaces that similarly impede the natural infiltration of stormwater.

Land-disturbing activity means any activity that results in a change in the existing soil cover (both vegetative and non-vegetative) and/or the existing soil topography. Land-disturbing activities include, but are not limited to, clearing, grading, filling, and excavation. Compaction that is associated with stabilization of structures and road construction shall also be considered land-disturbing activity. Vegetation maintenance practices, including landscape maintenance and gardening, are not considered land-disturbing activity. Stormwater facility maintenance is not considered land-disturbing activity if conducted according to established standards and procedures.

LID means low-impact development.

LID BMP means low-impact development best management practices.

LID principles means land use management strategies that emphasize conservation, use of onsite natural features, and site planning to minimize impervious surfaces, native vegetation loss, and stormwater runoff.

Low-impact development (LID) means a stormwater and land use management strategy that strives to mimic predisturbance hydrologic processes of infiltration, filtration, storage, evaporation, and transpiration by emphasizing conservation, use of onsite natural features, site planning, and distributed stormwater management practices that are integrated into a project design.

Low-impact development best management practices (LID BMP) means distributed stormwater management practices, integrated into a project design, that emphasize pre-disturbance hydrologic processes of infiltration, filtration, storage, evaporation, and transpiration. LID BMPs include, but are not limited to, bioretention, rain gardens, permeable pavements, roof downspout controls, dispersion, soil quality and depth, vegetated roofs, minimum excavation foundations, and water reuse.

Material storage facilities means an uncovered area where bulk materials (liquid, solid, granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.

Maximum extent practicable (MEP) refers to paragraph 402(p)(3)(B)(iii) of the federal Clean Water Act, which reads as follows: Permits for discharges from municipal storm sewers shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques, and system, design, and engineering methods, and other such provisions as the Administrator or the State determines appropriate for the control of such pollutants.

MEP means maximum extent practicable.

MS4 means municipal separate storm sewer system.

Municipal separate storm sewer system (MS4) means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

- (i) Owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of Washington State.
- (ii) Designed or used for collecting or conveying stormwater.
- (iii) Which is not a combined sewer;

- (iv) Which is not part of a publicly owned treatment works (POTW) as defined at 40 CFR 122.2.; and
- (v) Which is defined as "large" or "medium" or "small" or otherwise designated by Ecology pursuant to 40 CFR 122.26.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking, and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318, and 405 of the federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington State Department of Ecology.

Native vegetation means vegetation comprising plant species, other than noxious weeds, that are indigenous to the coastal region of the Pacific Northwest and that reasonably could have been expected to naturally occur on the site. Examples include trees such as Douglas Fir, western hemlock, western red cedar, alder, big-leaf maple; shrubs such as willow, elderberry, salmonberry, and salal; and herbaceous plants such as sword fern, foam flower, and fireweed.

New development means land-disturbing activities, including Class IV General Forest Practices that are conversions from timber land to other uses; structural development, including construction or installation of a building or other structure; creation of hard surfaces; and subdivision, short subdivision, and binding site plans, as defined and applied in Chapter 58.17 RCW. Projects meeting the definition of redevelopment shall not be considered new development. Refer to Appendix 1 for a definition of hard surfaces.

New Permittee means a city, town, or county that is subject to the Western Washington Municipal Stormwater General Permit and was not subject to the Permit prior to August 1, 2013.

New Secondary Permittee means a Secondary Permittee that is covered under, a municipal stormwater general permit and was not covered by the Permit prior to August 1, 2013.

NOI means Notice of Intent.

Notice of Intent (NOI) means the application for, or a request for coverage under a General Permit pursuant to WAC 173-226-200.

Notice of Intent for Construction Activity means the application form for coverage under the Construction Stormwater General Permit.

Notice of Intent for Industrial Activity means the application form for coverage under the General Permit for Stormwater Discharges Associated with Industrial Activities.

NPDES means National Pollutant Discharge Elimination System.

O&M means operations and maintenance.

Outfall means a point source as defined by 40 CFR 122.2 at the point where a discharge leaves the Permittee's MS4 and enters a surface receiving waterbody or surface receiving waters. Outfall does not include pipes, tunnels, or other conveyances that connect segments of the same stream or other surface waters and are used to convey primarily surface waters (i.e., culverts).

Permittee unless otherwise noted, the term "Permittee" includes city, town, or county Permittee, Co-Permittee, New Permittee, Secondary Permittee, and New Secondary Permittee.

Physically interconnected means that one MS4 is connected to another storm sewer system in such a way that it allows for direct discharges to the second system. For example, the roads with drainage systems and municipal streets of one entity are physically connected directly to a storm sewer system belonging to another entity.

Project site means that portion of a property, properties, or rights-of-way subject to land-disturbing activities, new hard surfaces, or replaced hard surfaces. Refer to Appendix 1 for a definition of hard surfaces.

QAPP means Quality Assurance Project Plan.

Qualified personnel means someone who has had professional training in the aspects of stormwater management for which they are responsible and are under the functional control of the Permittee. Qualified personnel may be staff members, contractors, or volunteers.

Quality Assurance Project Plan (QAPP) means a document that describes the objectives of an environmental study and the procedures to be followed to achieve those objectives.

RCW means the Revised Code of Washington State.

Receiving waterbody or receiving waters means naturally and/or reconstructed naturally occurring surface water bodies, such as creeks, streams, rivers, lakes, wetlands, estuaries, and marine waters, or groundwater, to which a MS4 discharges.

Redevelopment means, on a site that is already substantially developed (i.e., has 35 percent or more of existing hard surface coverage), the creation or addition of hard surfaces; the expansion of a building footprint or addition or replacement of a structure; structural development including construction, installation, or expansion of a building or other structure; replacement of hard surface that is not part of a routine maintenance activity; and land-disturbing activities. Refer to Appendix 1 for a definition of hard surfaces.

Regional Stormwater Monitoring Program (RSMP) means, for all of western Washington, a stormwater-focused monitoring and assessment program consisting of these components: status and trends monitoring in small streams and marine nearshore areas, SWMP effectiveness studies, and a Source Identification Information Repository (SIDIR). The priorities and scope for the RSMP are set by a formal stakeholder group. For this Permit term, RSMP status and trends monitoring will be conducted in the Puget Sound basin only.

Regulated small municipal separate storm sewer system means a municipal separate storm sewer system (MS4) that is automatically designated for inclusion in the Phase II stormwater permitting program by its location within an urbanized area, or by designation by Ecology and is not eligible for a waiver or exemption under S1.C.

RSMP means Regional Stormwater Monitoring Program.

Runoff is water that travels across the land surface and discharges to water bodies either directly or through a collection and conveyance system. See also "Stormwater."

Secondary Permittee is an operator of a regulated small MS4 that is not a city, town, or county. Secondary Permittees include special purpose districts and other public entities that meet the criteria in S1.B.

Sediment/erosion-sensitive feature means an area subject to significant degradation due to the effect of construction runoff, or areas requiring special protection to prevent erosion. See Appendix 7 Determining Construction Site Sediment Transport Potential for a more detailed definition.

Shared water bodies means water bodies, including downstream segments, lakes, and estuaries that receive discharges from more than one Permittee.

SIDIR means Source Identification Information Repository.

Significant contributor means a discharge that contributes a loading of pollutants considered to be sufficient to cause or exacerbate the deterioration of receiving water quality or instream habitat conditions.

Small municipal separate storm sewer system means an MS4 that is not defined as "large" or "medium" pursuant to 40 CFR 122.26(b)(4) and (7) or designated under 40 CFR 122.26 (a)(1)(v).

SOP means standard operating procedure.

Source control BMP means a structure or operation that is intended to prevent pollutants from coming into contact with stormwater through physical separation of areas or careful management of activities that are sources of pollutants. The SWMMWW separates source control BMPs into two types. Structural source control BMPs are physical, structural, or mechanical devices, or facilities that are intended to prevent pollutants from entering stormwater. Operational BMPs are non-structural practices that prevent or reduce pollutants from entering stormwater. See Volume IV of the SWMMWW for details.

STORM means Stormwater Outreach for Regional Municipalities.

Stormwater means runoff during and following precipitation and snowmelt events, including surface runoff, drainage, or interflow.

Stormwater associated with industrial and construction activity means the discharge from any conveyance that is used for collecting and conveying stormwater, which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, or associated with clearing, grading and/or excavation, and is required to have an NPDES permit in accordance with 40 CFR 122.26.

Stormwater Management Program (SWMP) means a set of actions and activities designed to reduce the discharge of pollutants from the MS4 to the MEP and to protect water quality, and comprising the components listed in S5 (for cities, towns, and counties) or S6 (for Secondary Permittees) of this Permit and any additional actions necessary to meet the requirements of applicable TMDLs pursuant to S7 Compliance with TMDL Requirements, and S8 Monitoring and Assessment.

Stormwater treatment and flow control BMPs/facilities means detention facilities, treatment BMPs/facilities, bioretention, vegetated roofs, and permeable pavements that help meet Appendix 1 Minimum Requirements 6 (treatment), 7 (flow control), or both.

SWMMWW or **Stormwater Management Manual for Western Washington** means *Stormwater Management Manual for Western Washington* (as amended in 2014).

SWMP means Stormwater Management Program.

SWPPP means Stormwater Pollution Prevention Plan.

TMDL means total maximum daily load.

Total maximum daily load (TMDL) means a water cleanup plan. A TMDL is a calculation of the maximum amount of a pollutant that a water body can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. The calculation must include a margin of safety to ensure that the water body can be used for the purposes the state has designated. The calculation must also account for seasonable variation in water quality. Water quality standards are set by states, territories, and tribes. They identify the uses for each water body, for example, drinking water supply, contact recreation (swimming), and aquatic life support (fishing), and the scientific criteria to support that use. The Clean Water Act, Section 303, establishes the water quality standards and TMDL programs.

Tributary conveyance means pipes, ditches, catch basins, and inlets owned or operated by the Permittee and designed or used for collecting and conveying stormwater.

UGA means Urban Growth Area.

Urban Growth Area (UGA) means those areas designated by a county pursuant to RCW 36.70A.110.

Urbanized area is a federally designated land area comprising one or more places and the adjacent densely settled surrounding area that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile. Urbanized areas are designated by the U.S. Census Bureau based on the most recent decennial census.

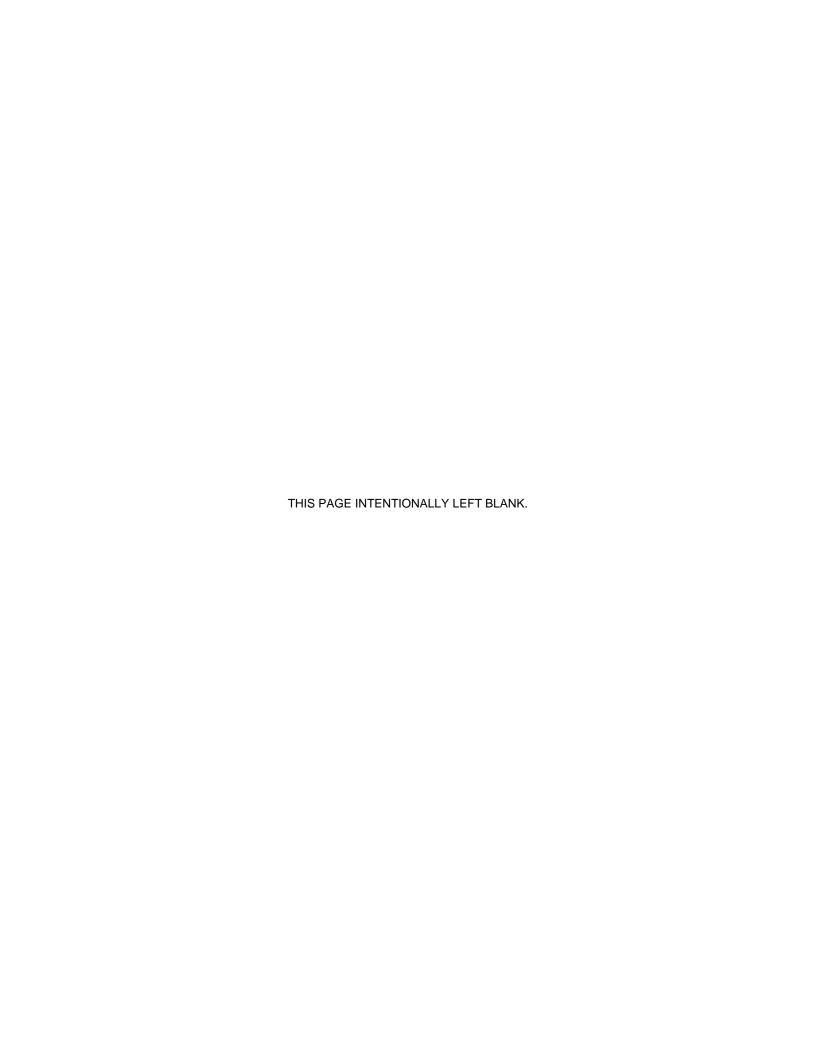
Vehicle maintenance or storage facility means an uncovered area where any vehicles are regularly washed or maintained, or where at least 10 vehicles are stored.

Water Quality Standards means Surface Water Quality Standards, Chapter 173-201A WAC, Ground Water Quality Standards, Chapter 173-200 WAC, and Sediment Management Standards, Chapter 173-204 WAC.

Waters of the state include those waters as defined as "waters of the United States" in 40 CFR Subpart 122.2 within the geographic boundaries of Washington State and "waters of the state" as defined in Chapter 90.48 RCW, which includes lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

Waters of the United States refers to the definition in 40 CFR 122

City of Bellevue 2016 Compliance Report





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lumber	Permit Section	Question
1	S5.A.2	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2) Saved Document Name: City of Bellevue 2017 SWMP_1_03032017024103
2	S9.D.5	Attach a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period per S9.D.5. Not Applicable
3	S5.A.3	Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP. Yes
4	S5.A.5.b	Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b) Yes
5	S5.C.1.a.i and il	Attach description of public education and outreach efforts conducted per S5.C.1.a.i and ii Saved Document Name: Q5_Q17 Program Package_5_03032017024125
6	S5.C.1.b	Created stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.1.b. Yes
7	S5.C.1.b	Used results of measuring the understanding and adoption of targeted behaviors among a least one audience in at least one subject area to direct education and outreach resources and evaluate changes in adoption of targeted behaviors. (Required no later than February 2, 2016, S5.C.1.b) Yes
7b	S5.C.1.b	Attach description of how this requirement was met. Saved Document Name: Q7b City of Bellevue NPDES Out_7b_03032017024526
8	S5.C.2.a	Describe the opportunities created for the public to participate in the decision making processes involving the development, implementation and updates of the Permittee's SWMP. (S5.C.2.a) A public meeting was held on January 5th, 2017 to collect comments on the SWMP. The SWMP was also posted to the City website with contact information
9	S5.C.2.b	Posted the updated SWMP Plan and latest annual report on your website no later than Ma 31. (S5.C.2.b) Yes
9b	S5.C.2.b	List the website address. http://www.bellevuewa.gov/stormwater-runoff-management.htm

Number	Permit Section	Question
10	S5.C.3.a.i - vi	Maintained a map of the MS4 including the requirements listed in S5.C.3.a.ivi, Yes
11	S5.C.3.b.v	Implemented a compliance strategy, including informal compliance actions as well as enforcement provisions of the regulatory mechanism described in S5.C.3.b. (S5.C.3.b.v) Yes
12	S5.C.3.b.vi	Updated, if necessary, the regulatory mechanism to effectively prohibit illicit discharges in the MS4 per S5.C.3.b.vi. (Required no later than February 2, 2018) Not Applicable
12b		Cite the Prohibited Discharges code reference
13	S5.C.3.c.i	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.3.c.i. Yes
13b	S5.C.3.c.i	Cite methodology Illicit Connection and Illicit Discharge Field Screening and Source Tracking Guidance Manual (2013 edition)
14	S5.C.3.c.i	Percentage of MS4 coverage area screened in reporting year per S5.C.3.c.i. (Required to screen 40% of MS4 no later than December 31, 2017 (except no later than June 30, 2018 for the City of Aberdeen) and 12% on average each year thereafter. (S5.C.3)
15	S5.C.3.c.ii	List the hotline telephone number for public reporting of spills and other illicit discharges. (S5.C.3.c.ii) 425-452-7840
15b	S5.C.3.c.ii	Number of hotline calls received. 164
16	S5.C.3.c.iii	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.3.c.iii. Yes
17	S5.C.3.c.iv	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. (S5.C.3.c.iv) Yes
17b	S5.C.3.c.iv	Describe the information sharing actions. (S5.C.3.c.iv) Annual IDDE training, Private Drainage Indspections awareness, ECOSS outreact to businesses and educational opportunities. See attachement for questions number 5.
18	S5.C.3.d	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges in the MS4 per S5.C.3.d. Yes
19	S5.C.3.d.iv	Number of illicit discharges, including illicit connections, eliminated during the reporting year. (S5.C.3.d.iv)

Number	Permit Section	Question 82			
20	S5.C.3.d.iv	Attach a summary of actions taken to characterize, trace and eliminate each illicit dischar found by or reported to the permittee. For each illicit discharge, include a description of			
		actions according to required timeline per S5.C.3.d.iv Saved Document Name: Q20 -2016 - IDDE Work Order Re_20_03062017011940			
21	S5.C.3.e	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection a elimination activities as described in S5.C.3.e.			
		Yes			
22	S5.C.4.a	Implemented an ordinance or other enforceable mechanism to address runoff from new development, redevelopment and construction sites per the requirements of S5.C.4.a.			
		Yes			
23	S5.C.4.a.i-iii	Revised ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment and construction sites per the requirements of S5.C.4.a.i-iii (Required no later than December 31, 2016, except no later than June 30, 2017 for Permittees in Lewis and Cowlitz counties, and no later than June 30, 2018 for the City of Aberdeen)			
		Yes			
23b	S5.C.4.a.i-iii	Cite code reference for revised ordinance or other enforceable mechanism to address run from new development, redevelopment and construction sites. 24.06 Storm & Surface Water Code; 23.76 Clearing and Grading Code			
24	S5.C.4.a.i	Number of exceptions granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1) 0			
25	S5.C.4.a.i	Number of variances granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., a Section 6 of Appendix 1)			
		0			
26	S5.C.4.b.i	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.i) Yes			
26b	S5.C.4.b.i	Number of site plans reviewed during the reporting period.			
	55.51 11511	562			
27	S5.C.4.b.ii	Inspected, prior to clearing and construction, permitted development sites that have a hig potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 Determining Construction Site Sediment Damage Potentia or alternatively, inspected all construction sites meeting the minimum thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.ii) Yes			
27b	S5.C.4.b.ii	Number of construction sites inspected per S5.C.4.b.ii.			
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	428			
28	S5.C.4.b.iii	Inspected permitted development sites during construction to verify proper installation as maintenance of required erosion and sediment controls. (S5.C.4.b.iii)			
(A) a		Yes			

Number	Permit Section	Question	
28b	S5.C.4.b.iii	Number of construction sites inspected per S5.C.4.b.iii. 583	
29	S5.C.4.b.ii, iii and	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.4.b.ii, iii and vida 48	
30	S5.C.4.b.iv	Inspected all permitted development sites that meet the thresholds in S5.C.4.a.i upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.4.b.iv) Yes	
31	S5.C.4.b.ii-iv	Achieved at least 80% of scheduled construction-related inspections. (S5.C.4.b.ii-iv) Yes	
32	S5.C.4.b.iv	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects. (S5.C.4.b.iv) Yes	
33	S5.C.4.c	Implemented provisions to verify adequate long-term operation and maintenance (O&M) stormwater treatment and flow control BMPs/facilities that are permitted and constructed pursuant to S5.C.4. a and b. (S5.C.4.c) Yes	
34	S5.C.4.c.i and ii	Updated provisions to verify long-term operation and maintenance of stormwater treatme and flow control BMPs/facilities that are permitted pursuant to S5.C.4.a and b. (Required later than December 31, 2016, except no later than June 30, 2017 for Permittees in Lewis and Cowlitz counties, and no later than June 30 2018 for the City of Aberdeen, S5.C.4.c.i and ii	
35	S5.C.4.c.iii	Annually inspected stormwater treatment and flow control BMPs/facilities per S5.C.4.c.iii. Yes	
35b	S5.C.4.c.iii	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.4.c.iii Not Applicable	
36	\$5.C.4.c.iv	Inspected new residential stormwater treatment and flow control BMPs/facilities and catch basins every 6 months per S5.C.4.c.iv to identify maintenance needs and enforce compliance with maintenance standards. Yes	
37	S5.C.4.c.v	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C4.c.v) Yes	
38	S4.C.4.c.vi	Verified that maintenance was performed per the schedule in S5.C.4.c.vi when an inspection identified an exceedance of the maintenance standard. Yes	
38b	S5.C.4.c.vi	Attach documentation of any maintenance delays. (S5.C.4.c.vi) Not Applicable	

Number	Permit Section	Question
39	S5.C.4.d	Provided copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity to representatives of proposed new development and redevelopment (S5.C.4.d)
		Yes
40	S5.C.4.e	All staff responsible for implementing the program to control stormwater runoff from no development, redevelopment, and construction sites, including permitting, plan review construction site inspections, and enforcement are trained to conduct these activities. (S5.C.4.e)
		Yes
41	S5.C.4.f.i	Reviewed, revised and made effective the low impact development-related enforceable documents per S5.C.4.f.i. (Required by December 31, 2016, except by June 30, 2017 f Permittees in Lewis and Cowlitz counties, and by June 30, 2018 for the City of Aberdee
		Yes
41b	S5.C.4.f.ii	Attach a summary of the LID review and revision process that includes the requirement listed in S5.C.4.f.ii. (Required with annual report due no later than March 31, 2017, ex no later than March 31, 2018 for Permittees in Lewis and Cowlitz counties, and with the Fifth Year annual report for the City of Aberdeen)
		Saved Document Name: Q41b LID Summary and Opportuni_41b_0310201708
42	S5.C.4.g	Participated and cooperated with the watershed-scale stormwater planning process led Phase I county. (S5.C.4.g)
		Not Applicable
43	S5.C.5.a	Updated and implemented maintenance standards as protective, or more protective, o facility function as those specified in Chapter 4 of Volume V of the Stormwater Manage Manual for Western Washington (as amended 2014). (Required no later than December 2016, except no later than June 30, 2017 for Permittees in Lewis and Cowlitz counties, no later than June 30, 2018 for the City of Aberdeen, S5.C.5.a).
		Yes
44	S5.C.5.a	Applied a maintenance standard that is not specified in the Stormwater Management Manual for Western Washington.
		No
44b	S5.C.5.a	Please note what kinds of facilities are covered by this alternative maintenance standa (S5.C.5.a)
45	S5.C.5.a.ii	Performed timely maintenance per S5.C.5.a.ii.
		No
46	S5.C.5.b	Annually inspected all municipally owned or operated permanent stormwater treatmer flow control BMPs/facilities. (S5.C.5.b)
		Yes
46b	S5.C.5.b	Number of known municipally owned or operated stormwater treatment and flow contr
		BMPs/facilities. (S5.C.5.b) 336
46c	S5.C.5.b	Number of facilities inspected during the reporting period. (S5.C.5.b)
		336

Number	Permit Section	Question
46d	S5.C.5.b	Number of facilities for which maintenance was performed during the reporting period. (S5.C.5.b)
		226
47	S5.C.5.b	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.5.b.
		Not Applicable
48	S5.C.5.c	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.5.c.
		Yes
49	S5.C.5.d	Inspected all municipally owned or operated catch basins and inlets as per S5.C.5.d, or used an alternative approach. (Required once no later than August 1, 2017 and every two years thereafter, except once no later than June 30, 2018 and every two years thereafter for the City of Aberdeen)
		Yes
404	CE C E d	Number of Ironne catch basins
49b	S5.C.5.d	Number of known catch basins.
		27545
49c	S5.C.5.d	Number of catch basins inspected during the reporting period.
		10172
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
49d	S5.C.5.d	Number of catch basins cleaned during the reporting period.
		2909
50	S5.C.5.d.i-ii	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.5.d.i or
50	33.0.3.4.1411	
		Not Applicable
51	S5.C.5.f	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.5.f)
		Yes
52	S5.C.5.g	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.5.g.)
		Yes
53	S5.C.5.h	Implemented a Stormwater Pollution Prevention Plan for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.5.h)
		Yes
54	S7.A	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)
		Not Applicable
	·	
55	\$7.A	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)
	909	Not Applicable

Number	Permit Section	Question	
56	S8.A	Attach a description of any stormwater monitoring or stormwater-related studies as described in S8.A.	
		Not Applicable	
57	S8.B.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for status and trends monitoring. $(S8.B.1)$	
		Yes	
57B	S8.B.2	If choosing to conduct individual status and trends monitoring, attach an annual stormwat monitoring report in accordance with S8.B.2. (Required to submit reports beginning March 31, 2016)	
		Saved Document Name:	
58	S8.C.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for effectiveness studies. (S8.C.1) (Required to begin no later than August 15, 2014)	
		Yes	
58b	S8.C.2	If choosing to conduct discharge monitoring, attach an annual stormwater monitoring repin accordance with S8.C.2 and Appendix 9. (Required to submit reports beginning March 3 2016)	
		Saved Document Name:	
59	S8.D.1	Contributed to the RSMP for source identification and diagnostic monitoring information repository in accordance with S8.D.1. (Required to begin no later than August 15, 2014)	
		Yes	
60	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3) Yes	
61	G3	Number of G3 notifications provided to Ecology. 78	
62	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/o the environment per G3.A. Yes	
63	C4 F 1	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's	
63	S4.F.1	MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1)	
		Yes	
64	\$4.F.3.a	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	
		Not Applicable	
65	S4.F.3.d	Attach a summary of the status of implementation of any actions taken pursuant to S4.F. and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	
		Not Applicable	
66	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	

Number	Permit Section	Question
		Yes
67	G20	Number of non-compliance notifications (G20) provided in reporting year. 1
67b	G20	List the permit conditions described in non-compliance notification(s).
		S5.C.5.a.ii Timely mainteance was not performed for approximatley 100 CB's

View Files Attached to Submission

DocDescr	DocName	DocExt	DocID	SubID	AppName
View WAR045504_1_03032017024103	City of Bellevue 2017 SWMP_1_03032017024103	"pdf	537363	1570052	wqwebportal
View WAR045504_20_03062017011940	Q20 -2016 - IDDE Work Order Re_20_03062017011940	pdf	537723	1570052	wqwebportal
View WAR045504_41b_03102017082335	Q41b LID Summary and Opportuni_41b_03102017082335	pdf	538987	1570052	wqwebportal
View WAR045504_5_03032017024125	Q5_Q17 Program Package_5_03032017024125	pdf	537364	1570052	wqwebportal
View WAR045504_7b_03032017024526	Q7b City of Bellevue NPDES Out_7b_03032017024526	pdf	537367	1570052	wqwebportal

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Submittals (WQWebSubmittal) Version 1.4.0 | Data Disclaimer | Privacy Policy Copyright © Washington State Department of Ecology 2017, All Rights Reserved, NPDES Western Washington Phase II Municipal Stormwater Permit City of Bellevue, Washington Permit No. WAR045504 Bellevue Question 5 Attachment (also Q17b) 2016 Compliance Report

Question 5: Attach description of public education and outreach efforts conducted per S5.C.1.a.i and ii.

Question 17b: Describe the information sharing actions associated with informing public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste (S5.C.3.c.iv)

The permit conditions which questions 5 and 17b address are listed in Attachment A. Bellevue provides NPDES-required public education and outreach services through traditional public education outreach programs and efforts and through development-related and operational water quality programs. Descriptions of 15 City programs and efforts that provided education and outreach and information sharing activities to the public and employees in 2016 are attached.

Attachment 'A' Description of Permit Conditions

Exhibits:

- ECOSS Pollution Prevention Outreach and Spill Kit Program
- Illicit Discharge Detection and Elimination (IDDE) Program
- IDDE Public Employee Education Program
- Private Drainage Inspection Program
- Car Wash Research Program
- Natural Yard Care Program
- Paint Program
- Public Storm Drain Marking Program
- School Workshops Program
- Online and Print Materials Program
- Public Events Program
- STORM and SOGgies Regional Programs
- Stream Team
- Development Services Program
- Clearing and Grading Permit Inspection Program

ATTACHMENT A - NPDES Permit Conditions for Compliance Report Questions 5 and 17b

S5. C. 1. Question 5 of the 2013-2018 NPDES Annual Compliance Report – Public Education & Outreach

The Stormwater Management Program (SWMP) shall include an education program aimed at residents, businesses, industries, elected officials, policy makers, planning staff and other employees of the Permittee.

The goal of the education program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. An education program may be developed locally or regionally.

MINIMUM PERFORMANCE MEASURES

S5.C.1.a. Educate target audiences about the stormwater problem and provide specific actions they can follow to minimize the problem.

i. To build general awareness, Permittees shall select from the following target audiences and subject areas:

Target Audience	Subject Areas		
General Public (including school age children)	* General Impacts of stormwater on surface waters * Impacts from impervious surfaces * Impacts of illicit discharges and how to report them * Low impact development (LID) principles & LID BMPs * Opportunities to become involved in stewardship activities		
Businesses			
Engineers, contractors, developers, land use planners	* Technical stds. for stormwater site & erosion control plans * LID principles and LID BMPs * Stormwater treatment and flow control BMPs/facilities		

ii. To effect behavior change, Permittees shall select from the following target audiences and BMPs:

Target Audience	Subject Areas			
General Public (including school age children)	* Use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials			
Businesses (including home-based and mobile)	* Equipment maintenance * Prevention of illicit discharges			
Residents, landscapers and property managers/owners	* Yard care techniques protective of water quality * Use and storage of pesticides and fertilizers and other household chemicals. * Carpet cleaning and auto repair and maintenance. * Vehicle, equipment and home/building maintenance * Pet waste management and disposal * LID principles and LID BMPs * Stormwater facility maintenance			

S5. C. 3. d. Question 17 and 17b of the 2013-2018 NPDES Annual Compliance Report – IDDE

Permittee shall inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

i. No later than 180 days prior to the expiration date of this Permit, distribute appropriate information to target audiences identified pursuant to S5.C.1.

	* Dumpster and trash compactor maintenance
--	--

Target Audience	Subject Areas				
Public employees					
Businesses	* Hazards associated with illegal discharges and improper disposal of waste.				
General Public	a -F				





2016 ECOSS Pollution Prevention Outreach Report For the City of Bellevue

Date: 12/27/2016

ECOSS

605 S Riverside Dr., Seattle WA 98108

Tel: 206-767-0432

Introduction

The number one source of pollution in Washington State's waters is stormwater (also known as polluted runoff). Small spills, unintentional deposits, and leaks from cars, equipment/machinery and other types of pollutants that can come from business activities travel across impervious surfaces until deposited in local waterbodies, carried by rain. This polluted runoff has environmental impacts that effect both wildlife and human health. According to the U.S. E.P.A.'s "Urban Storm Water Preliminary Data Summary", the impacts range from the proliferation of bacteria and disease causing organisms, contamination of drinking water supplies, beach closures, and high rates of pre-spawn mortality amongst fish populations.

Controlling polluted runoff and non-point source pollution is key to protecting and restoring the Puget Sound ecosystem and the amenities the waterway provides to local communities. The greatest opportunity for systemic change is for businesses, residents and agencies to do their part and prevent pollution before it gets to the Puget Sound, today and in the future.

ECOSS started providing spill kit outreach for Seattle Public Utilities (SPU) in 2004. The program was expanded to South King County cities in 2009, and with a large grant in 2013 from Puget Sound Partnership, ECOSS has now extended its reach into four counties and more than 30 cities. The main goals of the program are to help increase awareness of stormwater pollution, and encourage spill preparedness in small to medium sized businesses with connectivity to Puget Sound. ECOSS has developed partnerships with over 30 local municipalities, including the City of Bellevue to help meet local water quality goals and assist in educating local businesses through this program.

ECOSS seeks to engage businesses on behalf of jurisdictions on the subject of stormwater pollution prevention, help save money, and contribute to a cleaner Puget Sound. By providing free spill cleanup materials and training, including multicultural support when applicable as the incentives, ECOSS strives to create a long-term positive relationship between cities and businesses.

Implementation

Business Prioritization

ECOSS provides spill kit outreach based on each jurisdictions preference. As outreach is performed, ECOSS' outreach staff may add additional businesses to the list through field research based on the level of risk observed in the field. The following facility activities were used as the standard to assess risk:

- Fueling and fuel transfer
- Outdoor manufacturing
- Outdoor equipment/vehicle maintenance
- Outside drum or container storage

- Vehicle, equipment, or building washing
- Loading/unloading of products
- Landscape construction/maintenance
- Outside storage of uncovered materials

In the City of Bellevue, 25 businesses were identified and served through these approaches in 2016 (see Appendix A for a list of businesses served). ECOSS has served a total of 111 businesses in the City of Bellevue since 2013.

Outreach and Materials

ECOSS' outreach staff made contact with each business through either a site visit or phone call, and introduced themselves as a partner of City of Bellevue. When available, the outreach staff used referrals through property management companies, business associations, networks, and in some cases, other agencies, as a means of introduction. The ECOSS team provided outreach materials in multiple languages in addition to English which includes: Spanish, Vietnamese, Korean, Somali, Mandarin/Cantonese, and other languages as needed.

A suite of outreach materials was developed with the help of a social marketing consultant. As part of this program, businesses were interviewed to gather information about the perceived barriers and benefits of their participation in the program. A list of the materials is provided below:

- **Program brochure** (Appendix B) This was the primary tool used to introduce the program and to substantiate the city's participation. The brochure covers the issue of polluted runoff, the benefits to participation in the program, and historical background on ECOSS to increase the level of trust.
- Instructional Poster (Appendix C) A tool that illustrates the steps to clean up a spill. In early 2014, ECOSS translated the Instructional Posters into five languages: Chinese, Korean, Somali, Spanish, and Vietnamese. The translated documents are available to businesses with employees who speak English as a

- Second Language (ESL). These documents were made to further assist multicultural businesses owners and employees to better understand stormwater management.
- **Spill Kit Content** (Appendix D) This content sheet provides the list of the content in the kit the business received. The sheet also provides the business the content suppliers' contact information. In the future if the kit is used, the business knows where to restock the kit.
- **Pledge** (Appendix E) Businesses served through the program are encouraged to sign the pledge of taking actions to prevent spills. They can also demonstrate their effort in fulfilling their corporate social responsibility.
- **Spill plan** (Appendix F) This plan was developed with the information collected from each business and it details the site-specific risks and contact information for emergency response. Depending on the languages needs of the businesses, the plans were provided in English exclusively or bilingual English and another language: Chinese, Korean, Somali, Spanish, or Vietnamese. Samples of English-only plan and a bilingual plan are shown in Appendix D.
- **Site map** (Appendix G) Geographic Information System (GIS) data provided by the cities was used to create maps of each business site that showed its stormwater infrastructure and connectivity to Puget Sound. A sample is shown in Appendix E.

Initial and Follow-up Visits

During the initial visit, participating businesses were given a brief primer on the subject of stormwater and its effect on water quality. As an incentive to responsibly address onsite spills, the business received a free spill kit (Figure 1) containing either universal or oil-only sorbent materials capable of cleaning up to seven gallons of liquid. The kit contents include:

- 1 6.5 Gal UN Rated Pail w/lid
- 2 Disposal Bag (4 mil)
- 2 Disposal Bag (6 mil)
- 4 Poly Zip Ties
- 20 Heavy Wt. Sorbent Pads
- 2 3"x 48" Sorbent Socks
- 1 Pair Nitrile Gloves
- 1 Splash Resistant Goggles
- 1 Instruction/Contents Page
- 2 Spill Response Labels
- 1 Grate Hook



Figure 1. Spill kit provided to participating businesses.

Outreach staff provided training on the proper use and disposal of kit materials, as well as an instructional poster on how to clean up spills. Staff collected information on existing hazardous materials, high-risk activities and equipment, and made a follow-up visit to each business to provide the individualized spill plan and site map. During this follow-up visit, the outreach staff assessed the chosen location of the spill kit on-site and offered suggestions when applicable. The businesses were reminded of ECOSS' role as a resource for future trainings (also available in a variety of languages) for their employees.

Baseline and Follow-up Survey

During the initial visit, a baseline survey was conducted to develop an understanding of the level of awareness on the part of businesses owners or staff. This survey helped paint a picture of what each business's beliefs were regarding liability and responsibility before the interaction, as well as awareness level. Later, a representative sample of the businesses served were re-contacted for a follow-up survey. The purpose was to assess the level of understanding of the issue that was retained since the first interaction.

2nd Training

In 2014, ECOSS developed a thorough evaluation report on the effectiveness of the program. It was found that significant numbers of businesses had not been providing spill prevention trainings to their employees on a regular basis. As a solution to further improve the effectiveness of the program, ECOSS started revisiting previously served businesses and offering the additional service of free spill re-training. As part of the 2nd training, the outreach staff reminds business managers and employees about the latest required BMPs, spill kit replenishments, spill prevention plan update and emergency spill contact update (as applicable). ECOSS generally does not provide a 2nd free spill kit to businesses, but outreach staff provide detailed spill kit purchasing information to business managers on each visit. If language barrier is an issue for business managers to train their employees, ECOSS also offers trainings in 15 different languages.

Business Served and Their Stormwater Awareness

Characteristics

In 2016, a total of 25 businesses were served through this program in the City of Bellevue (Appendix A). A breakdown of the types of businesses served in this city is shown in Figure 2.

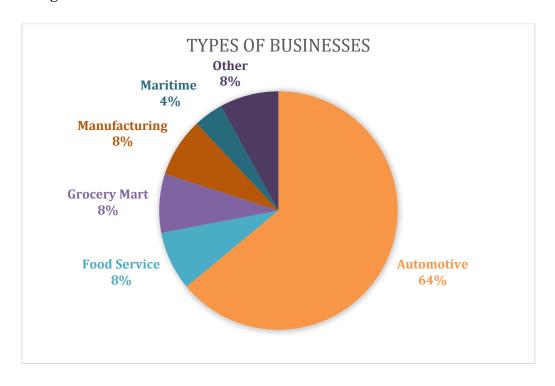


Figure 2: Business Sector Breakdown

Languages

Through this program, ECOSS' Multicultural Outreach Team utilized their language capacities to connect with multicultural businesses. As seen in Figure 3, 12% of the businesses served in the City of Bellevue spoke English as a Second Language (ESL).

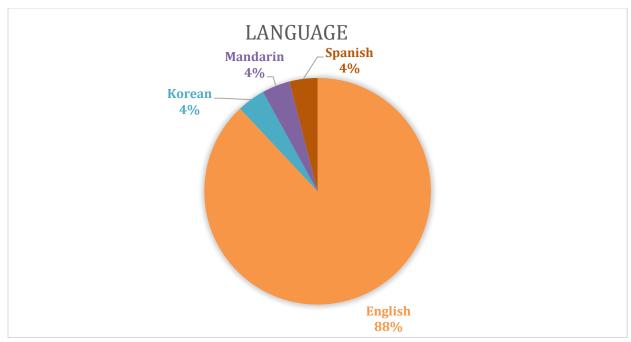


Figure 3: Primary Language Spoken Breakdown

The rest of this section includes results from all the participating cities.

Out of the 1095 total businesses served in this program throughout all the cities in 2016, 35% spoke other languages than English. A breakdown of the languages spoken by the businesses program-wide is shown in Table 1.

Demographic Data of Businesses Served					
Language	Percentage				
English	65%				
Korean	7%				
Spanish	10%				
Somali	1%				
Vietnamese	4%				
Chinese	2%				
Other	11%				

Table 1: Primary languages spoken by businesses

Survey Results

During the initial visit, a baseline survey was conducted to develop an understanding of the level of awareness on the part of business owners and/or staff.

This pre-survey provides a baseline indication of businesses understanding and beliefs were regarding liability and responsibility before ECOSS provided the spill training and support materials. Later, a representative sample of the businesses served were received a follow-up survey, with the purpose of assessing the level of understanding of the issue that was retained from the first interaction.

Participating businesses were asked to answer all of the questions in the Baseline Survey, and about 24.3% of participating businesses responded to the Post-Service Survey. To do this, ECOSS developed a series of more involved questions for those willing to take part in a longer and more in-depth interview to discuss details of on-site spills and their impressions of the program. The following figures highlight some of the success and barriers we had from the project.

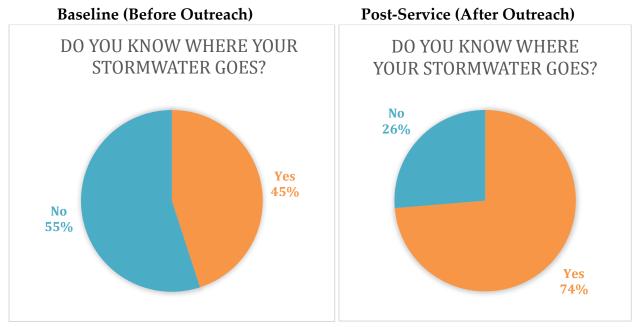


Figure 4. Baseline and Post-Service Question1a Result Comparison.

Business managers and owners showed significant improvement on understanding where the stormwater runoff goes from their sites after the outreach, as 74% reported correctly to knowing where stormwater goes after the outreach, compared to 45% accuracy before outreach (Figure 4). This can be attributed to onsite training and sitespecific GIS maps provided by ECOSS outreach staff.

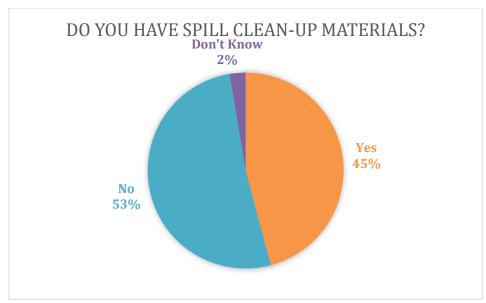


Figure 5. Baseline Question 3a survey result.

During the initial outreach, ECOSS staff queried as to whether or not each business had any spill clean-up materials (e.g. shop rags, sorbent pads/booms, sorbent powder, etc.) onsite. The team found that about 45% of the businesses had some materials to address spill incidents (Figure 5). In these circumstances, our staff would educate and assist the businesses to utilize all tools available to address outdoor spills.

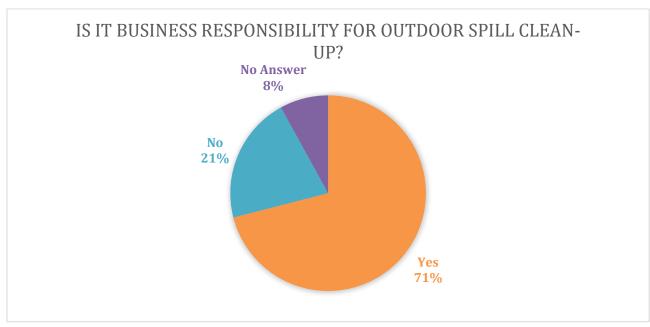


Figure 6. Is it business responsibility for outdoor spill cleanup?

We also found that 71% of the business recognized outdoor spill was their responsibility to clean up (Figure 6). However as seen above, only 45% of the business had materials to address spill incident. Although it was not documented in our survey, many business managers were not aware of any regulatory liabilities associated with outdoor spills.

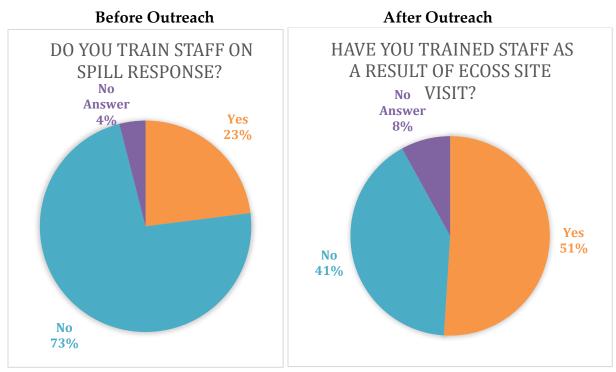


Figure 7. Baseline Question 4a and Post-Service Question 4a result comparison.

Only 23% of the businesses trained their staff on spill response prior to the outreach, whereas 51% of the businesses conducted trainings for their staff as a result of the visit (Figure 7). While apparently automotive businesses were more likely to train their staff after the visit, food service businesses were least likely to do so. When it was identified in 2014 that there was an issue of low training rate among certain business sectors, ECOSS began revisiting businesses served to remind them of the importance of, and encourage them to provide, spill response training to employees.

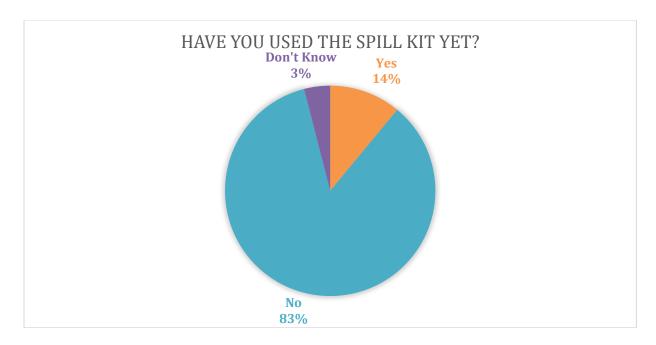


Figure 8. Post-Service Survey Question 2a result.

By conducting the Post-Service Survey among 1271 businesses, the team found that approximately 14% of businesses surveyed had utilized the spill kits since receiving the training (Figure 8). The Post-Service Survey data gathered during this program shows that between 2013 and 2016, 172 businesses (representing 14% of the businesses sampled) have had an outdoor spill since receiving the service and that they utilized the kit to clean up the spill. Assuming that those businesses were in jurisdictions that had spill response programs, those agencies would have saved \$287 per incident based on data provided by Seattle Public Utilities, which collectively would add up to approximately \$50,000. If a contractor had been used to clean up these spills, the accumulated costs would have been approximately \$465,000.2

Most businesses used the spill kits for cleaning up **common vehicle fluids (81%)**, while others used the kits for miscellaneous chemicals (6%) and waste such as paints, solvents (3%) and cleaning products (3%) and fat, oil and grease (2%) (Figure 9). All but six of these spills were less than five gallons.

¹ Eric Autry, Senior Spill Coordinator SPU, Personal Communication.

² SPU reported that when there is a spill that requires the use of a contractor, the average cost per incident is \$2,700 (Eric Autry, Senior Spill Coordinator SPU, Personal Communication).

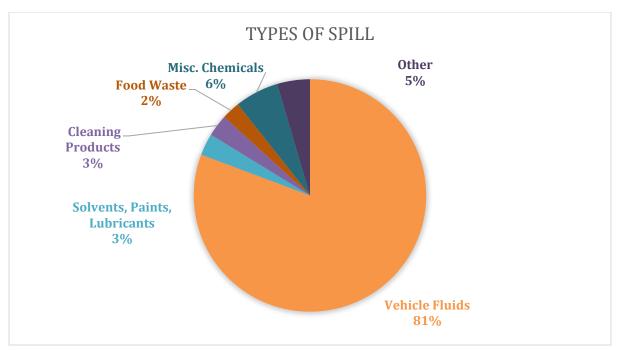


Figure 9. Types of spills record in Post-Service Survey

Since the team's visits, 78% of the businesses have adopted spill prevention practices. (Figure 10) As part of the initial training, ECOSS staff encouraged businesses to utilize the Spill Prevention Plan as a training tool and guidelines to educate employees on the importance of cleaning up spills.

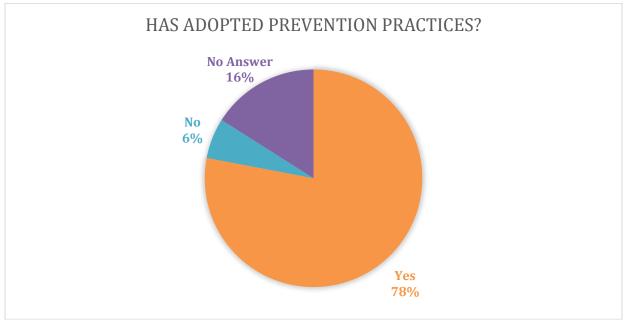


Figure 10. Have the businesses adopted spill prevention practices?

When asking the question, "How confident are you that you could clean up an outdoor spill if you had one," ECOSS found about 55% of the businesses served were "Very Confident" that they could clean up a spill, whereas 41% were "Somewhat Confident," and only 4% were "Not Very Confident," or "Not Confident At All" (Figure 11). The survey result showed most businesses are confident they could respond to a spill after ECOSS' spill prevention training.



Figure 11. How confident is businesses in cleaning up a spill

Conclusions

In summary, the 2016 outcomes for the City of Bellevue from this project are:

- A total of 25 businesses in City of Bellevue received spill training, a spill kit, spill plan and site map (Appendix A).
- 12% of the businesses served in the City of Bellevue spoke ESL. The most common language spoken other than English is Korean, Mandarin and Spanish within the served businesses.
- About 14% of the businesses (of all participating cities) served reported an
 outdoor spill since receiving the service and utilized the spill kit they received to
 clean up the spill. Assuming that those businesses were in jurisdictions that had
 spill response programs, those agencies would have collectively saved
 approximately \$50,000 at a cost of \$287 per response. Assuming that if a spill was
 not cleaned up and reached a storm drain, a contractor would need to be called
 in to address the spill by jurisdictions without spill response equipment. In this

- case the cumulative costs would had been close to \$465,000 based on an average cost of \$2,700 per catch basin cleaned.
- Prior to the service, only 45% of the businesses that took part in the program were aware of where polluted runoff went. This number increased significantly to 74% with the sample of businesses completing the Post-Service Survey.
- Expressed support on the part of the municipality was crucial to gaining the trust of the business' representatives.
- Most of the trainings were well-received and the outreach team received positive feedback from attendees about how much they learned.

Recommendations and Next Steps

- 1. Based on the use of the kits amongst the business community, ECOSS recommends continuing to provide the program for 2017. By both engaging new businesses and revisiting earlier-served businesses, ECOSS can further solidify the principles of spill prevention and clean-up within City's business community. By revisiting the businesses served on a regular basis, ECOSS can build a long-term relationship between the city and the businesses. This will also ensure the clients are following best management practices.
- 2. ECOSS recommends revisiting previously served businesses to provide a refresher training. While conducting the Post-Service survey, it was found that although many businesses did provide spill trainings for their employees, due to high staff turnover, inconvenience, and other reasons, a majority of the businesses worked with did not provide spill trainings. Not only do refresher trainings encourage businesses to recognize instances in which a spill kit would be of use, but it also helps the city to develop meaningful relationships with the businesses by indirectly providing this free resource.
- 3. As this program continues in the future, it would be best to allocate resources to allow more time for staff to be an ongoing resource to businesses served. By providing regularly recurring trainings, not only would the value of the program to businesses that don't have the resources and experience to train their staff increase, but also the likelihood that pollution prevention practices will become institutionally embedded at these businesses.

Appendix A: Table of Businesses Served.

Account Name	Address	City	Primary Language Spoken	Stormwater Services Provided
Type of Business: Automotiv	e (16 records)			
German Car Specialist	12408 SE 38th St	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
DMC De Lorean Motor Company	12766 Bel Red Road	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Bel-Kirk Mustang	12760 Bel-Red Road	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Biggs-Eastside Rover-Land Rover Service Center	12700 Bel Red Road	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Europa Imported Service LLC	12700 Bel Red Road	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Sunmark Auto Care	13600 NE Spring Blvd	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Mark's Japanese Uropean Auto	1414 132nd Ave NE	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Autologic	1407 132nd Ave NE, Suite 3	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Squire's Autowerke	1515 134th Ave NE	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Service Master of Seattle	1600 132nd Ave NE	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Eastside Professional Detail	13285 NE 22nd St	Bellevue	Spanish	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
SA-Go Auto Repair	13234 Bel-Red Road	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Eastside Autowork	12404 SE 38th St	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded
Formula One	3625 Factoria Blvd	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map; Displayed Instructional Poster; Accepted Training; Pre survey recorded

AM Complete Auto and	13451 SE 27th PI	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
Truck Repair				Displayed Instructional Poster; Accepted Training; Pre survey recorde		
O'reilly Auto Part	4000 Factoria Blvd SE	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Food Ser	vice (2 records)					
99 Park Restaurant	99 102nd Ave NE	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Goose Pub & Eatery	12001 NE 12th St. #90	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Grocery I	Mart (2 records)	L				
120th Deli & Grocery	12001 NE. 12th St. #76	Bellevue	Korean	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Jing Jing Grocery	12402 SE 38th St	Bellevue	Mandarin	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Manufac	turing (2 records)					
Alpha Soft Flags	13620 NE 16th St	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Tori State Plumbing	1624 135th Pl	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Maritime	e (1 record)					
West Marine	13211 Northup way	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Other (1	records)					
Alignments Plus	13710 NE Spring Blvd	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
				Displayed Instructional Poster; Accepted Training; Pre survey recorded		
Type of Business: Logistics	(1 record)					
	1	Bellevue	English	Accepted and Stored Spill kit; Displayed Spill Plan; Displayed Site Map;		
T&A Supply Company	13420 NE 16th St	bellevue	LIIGIISII			
T&A Supply Company	13420 NE 16th St	Bellevue	Liigiisii	Displayed Instructional Poster; Accepted Training; Pre survey recorded		

Appendix B: Program Brochure



Appendix C: Instructional Poster





Spill Kit

- 6.5 Gal. UN Rated Pail w/lid
- Disposal Bag (4mil.)
- Disposal Bag (6mil.)
- 4 Poly Zip Ties
- 20 Heavy Wt. "Oil Only" Pads
- 2 3" X 48" "Oil Only" Socks
- Pair Nitrile Gloves
- Splash Resistant Goggles
- Instruction / Contents Page
- Spill Response Labels
- Grate Hook



Supplies to restock the kit after use can be ordered from:

Abatix 206-963-0995

www.abatix.com

Advanced Environmental

253-872-9363

www.advenvironmental.com

Grainger Industrial Supply 206-767-4500 www.grainger.com

New Pig 1-800-468-4647 www.newpig.com

ecoss.org





(Business or contact name)

By signing below, I agree that I will:

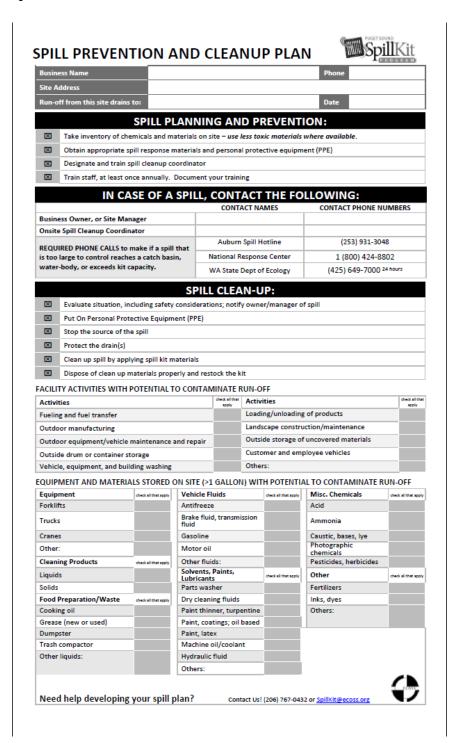
- Train my staff on how to use the Spill Kit
- Use the kit in case of a spill
- Dispose of used materials properly
- Replace any materials that are used

Initials

Date

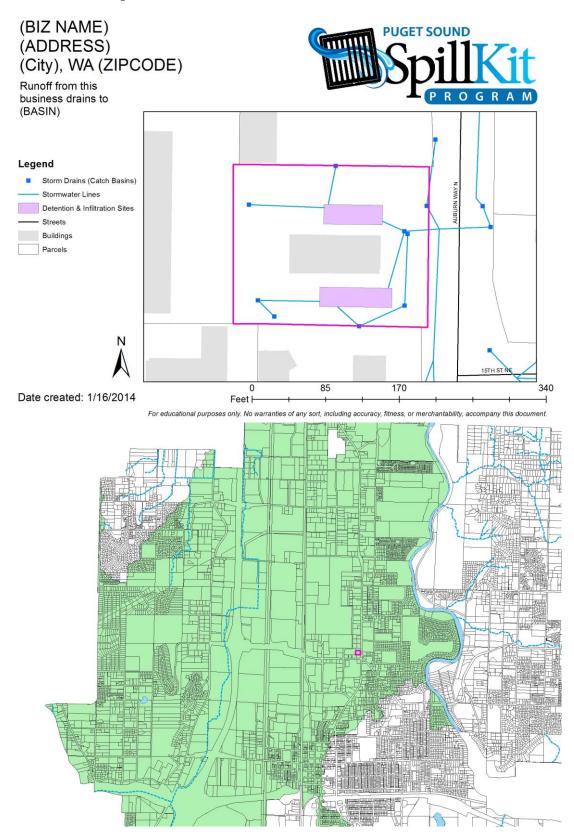
Remember: Only Rain Down the Drain!





	s Name (Number del negocio)		Phone (Teléfono)	Business Name (Numbre del n	egocio)			Phone (Teléfono)	
	ddress (Dirección)	_		Site Address (Direction)	-		_	W	_
	trum this site draim to: (El agua de se cae en su local desembosa en.)	D	ste (Fecha)	Nurs off from this afterdrains for \$1.00 Movie que can on se hotal deserrate	ma em [Date (Fecha)	
		NNING AND PREVENTION		FACILITY ACTIVITIES WITH ACTIVIDADES QUE PODRÍA		DERRAME			
	PREPARACIÓN Y PREVENCIÓN DE DERRAMES: Tale inventory of chemicias and materials on site – use feas toxis moterials where available. Haga inventario de las austracias químicas y ortor materials en pue local — Se a puelle, use materials eneses teleiras			Activities (Actividades)	check all that apply (manque todax lax que apliquen)			check all that appl (marque todas las que apliquen)	
_	Obtain appropriate spill response materia			Fueling and fuel transfer Gasolineras o vendedores de o	Fueling and fuel transfer Gasolineras o vendedores de combustibles			of products productos	
	Obtenga material para limpiar derrames	y equipo protector (guantes, lentes		Outdoor manufacturing Fabricación de materiales al al	e libra		Landscape construi Jandineria	ction/maintenance	
	Designate and train spill cleanup coordina Designe y entrene a un coordinador para	Outdoor equipment/vehicle m Mantenimiento de vehiculos o		Outside storage of uncovered materials Almacenamiento de materiales descu- biertos al aire libre					
•	Train staff, at least once annually. Document Entrene a su personal por lo menos una v	Outside drum or container sto Tambor exterior o contenedor			Customer and employee vehicles Vehiculos de clientes y empleados				
		PILL, CONTACT THE FOLLO		Vehicle, equipment, and build Limpleza de vehículos, equipo			Others: Otras:		e e
	EN OSO DE QUE OC	CONTACT NAMES (NOMBRES)	CONTACT PHONE NUMBERS (NÚMEROS DE TELÉFONO)			I SITE (>1 GALLON) WITH POT N EL LOCAL (EN CANTIDADES			AUSAR UN DERR
	ss Owner, or Site Manager	(realismo)	(Homestor Feed only)	Equipment Equipo	chart of that apply (martise trade be-	Vehicle Fluids Fluidos vehiculares	check of that apply (manyor trabe) in our selected	Misc. Chemicals Sustancias químicas	destablish (repperso persolis
	o del negocio o Gerente) Spill Cleanup Coordinator			Forkifts (Montacargas)	an attant	Antifreeze (Anticongelante)		Acid (Ácidos)	17.64
Coord	inador para limpiar derrames en su local)			Trucks (Camiones)		Brake fluid, transmission fluid (Fluides de frenos o transmis		Ammonia (Amoniace)	
maches a	D PNORE CALLS to make if a split that is too large to control outsit basis, water body, or exceeds lift openity (ii) no puede			Cranes (Gnias)		Gasoline (Gasolina)		Caustic, bases, lue (Sustancias cáusticas, le	ejia)
narye é	vo demene grande y la sostancia flega a una alcanterilla, a un o agua, o escede la capacidad del aquipo para limpiar demensa ATERIO (LAMARIA)	WA State Dept of Ecology Depto, de Ecologia del Estado de WA	(425) 649-7000 24 hours (24 horss)	Other: (Otros)		Motor oil (Aceite de motor)		Photographic chemical (Químicos fotográficos)	
		SPILL CLEAN-UP:		Cleaning Products Productos de limpieza		Other fluids: (Otros fluidos):		Pesticides, herbicides (Pesticidas, Herbicidas)	
	LIME	PIEZA DE DERRAMES:	Liquida (Liquidae)		Solvents, Paints, Lubrican Solventes, Pinturas, Lubricantes		Other (Otros)		
1	Evaluate situation, including safety consideration of the situation of the safety consideration of the safety cons	Seliels (Sélides)		Parts washer (Contenedor po lavar autopartes)	22	Fertilizers (Fertilizantes	0:		
50	Put On Personal Protective Equipment (Pl	Put On Personal Protective Equipment (PPE)		Food Preparation/Waste Comida/Basura		Dry cleaning fluids (Liquides e tintoreria)	ie	Inks, dyes (Tinta, tintur	91)
=	Use el equipo protector (guantes, lentes,	etc.}		Cooking oil (Aceite de cocina)		Paint thinner, turpentine (Tin aguarrás)	liner. Others: (Otros)		
	Stop the source of the spill Detenga lo que esté causando el derrame			Grease (new or used) Grasa (nueva o usada)		Paint, coatings; oil based (Pin de sceite)	tura	1	
_	Protect the drain(s)			Dumpater Contemedor de basura		Paint, latex (Pintura de látex)		t	
	Proteja las alcantarillas Clean up spil lby applying spill kit materials Limpie et derarme usando los materiales en el equipo para limpiar derrames			Trash compactor		Machine oil/coolant (Aceite)	1979	1	
				Compactador de bacura Other liquids:		máquinas/Refrigerante) Hydraulic fluid (Fluido hidráu	(co)	i	
	Dispose of clean up materials properly an	Otres liquides:		Others (Otros)		I			
		na manera apropiada y reponga est							

Appendix G: Site Map



NPDES W. WA. Phase II Permit Public Education & Outreach Attachment 2016 Compliance Report City of Bellevue, WA IDDE¹ Public Employee Education Program **Program:** Utilities/Operations and Maintenance/Water Quality Section **Department/Division**: Development Services Department/Clearing and Grading Program **Permit Requirement:** □ S5.C.1.a.i. To build general awareness...about the stormwater problem and provide specific actions they can follow to minimize the problem. □ S5.C.1.a.ii. To effect behavior change... about the stormwater problem and provide specific actions they can follow to minimize the problem. X S5.C.3.d. To inform and distribute appropriate information to target audiences about the hazards associated with illegal discharges and improper disposal of waste. **Target Audience(s):** Public employees **Subject Area(s)**: Hazards associated with illegal discharges and improper disposal of waste. **Program Description**: Education about illegal discharges and improper disposal of waste is provided to public employees in a number of ways, including but not limited to: Awareness Level Training – Utilities Operations and Maintenance conducts ongoing training for field staff who may as part of their normal job duties come into contact with or otherwise observe an illicit discharge or illicit connection. Staff is trained in the proper procedures to report and respond to illicit discharges² and connections³. Investigative Training- Staff who are responsible for the identification, investigation, termination, clean-up, and reporting of illicit discharges and connections receive refresher training and updates on permit requirements on an annual basis. Utilities Operations and Maintenance IDDE Program staff also conducts citywide and group-

specific training throughout the year.

□ New

2016 Accomplishments:

X Ongoing

☐ One Time ☐ Other

¹ IDDE Illicit Discharge Detection and Elimination

² Illicit discharge means any discharge to a municipal separate storm sewer system (MS4) that is not composed entirely of stormwater or of non-stormwater discharges allowed as specified in the NPDES W. WA Phase II Municipal Stormwater Permit.

³ Illicit connection means any infrastructure connection to the MS4 that is not intended, permitted or used for collecting and conveying stormwater or non-stormwater discharges allowed as specified in the Permit. Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the MS4.

Public Education & Outreach Attachment 2016 Compliance Report

Progran	n:	Private Drai	inage Inspecti	on Program	
Departn	nent/Division:	Utilities/Op	Utilities/Operations and Maintenance/Water Quality Section		
Permit 1	Requirement:				
	55.C.1.a.i. To bu provide specific a	-			ater problem and oblem.
	5.C.1.a.ii. To ef provide specific a		-		ater problem and oblem.
					to target audiences proper disposal of waste.
Target A	Audience(s): B	usinesses; Res	sidents; Prope	rty Owners; Pr	operty Managers
Subject	Subject Area(s): Prevention of illicit discharges; Hazards associated with illegal discharges and improper disposal of waste; Stormwater facility maintenance				
Program Description : The Private Drainage Inspection program (PDI) provides storm drainage system inspection services and education on maintenance standards to businesses, residents, property owners and managers of over 1400 properties in Bellevue on an annual or biennial frequency. Education is an important key to maintaining the integrity and functionality of the private drainage systems, which represent at least half of all drainage systems in Bellevue. Nearly all of the businesses, residents, property owners and managers contacted during routine compliance inspections are provided with information on the adopted maintenance standards, illicit discharge educational materials, and the consequences of not complying with city codes.					
2016 Ac	complishments	: □ New 2	X Ongoing	☐ One Time	☐ Other
In 2016,	617 properties v	were inspected	d through the	PDI program. (Of those that needed

maintenance, nearly 95% completed timely maintenance as requested.

Public Education & Outreach Attachment 2016 Compliance Report

Program: Car Wash Research - now Fundraising Outreach for Pollution

Prevention

Department/Division: Utilities/Operations and Maintenance, Water Quality

Permit Requirement:

- X <u>S5.C.1.a.i.</u> To build general awareness...about the stormwater problem and provide specific actions they can follow to minimize the problem.
- X <u>S5.C.1.a.ii.</u> To effect behavior change... about the stormwater problem and provide specific actions they can follow to minimize the problem.
- X <u>S5.C.1.C.</u> Measure the understanding and adoption of the targeted behaviors for at least on target audience in at least one subject area.
- X <u>S5.C.3.d.</u> To inform and distribute appropriate information to target audiences about the hazards associated with illegal discharges and improper disposal of waste.

Target Audience(s): Businesses; General Public, schools

Subject Area(s): General impact of stormwater on surface waters; Impacts from impervious

surfaces; Impacts of illicit discharges and how to report them; Prevention of illicit discharges; Hazards associated with illegal discharges and

improper disposal of waste.

Program Description:

- Provides preemptive and onsite education to inform businesses, schools, fundraisers, and residents how they can help prevent stormwater pollution when fundraising.
- Provides a list of fundraising options that are alternatives to traditional car washing such as the sale of commercial car wash coupons.
- Monitors charity car wash occurrences during strategic months of the year to prevent pollution.

2016 Accomplishments : □ New X	K Ongoing	☐ One Time	☐ Other
---------------------------------------	-----------	------------	---------

The program underwent significant change in 2016 as a result of a thorough review of 10+ years of reports and data. The City of Bellevue is no longer provided fundraising car wash kits. Instead, businesses and fundraisers receive a list of alternative fundraisers. Outreach in 2016 included:

• Website update

- In person outreach to all secondary schools and 15 businesses who have previously hosted car washes to deliver letter regarding change, reasons for change, and list of alternative fundraising options
- Email letter and information to 38 fundraisers who have held fundraising car washes in Bellevue in the past
- Drive-around inspections several weekends to monitor compliance. Only one car wash was found although they received notice of the change twice (email and phone)
- Presentation about research process and new program at 2016 STORM Symposium





Public Education & Outreach Attachment 2016 Compliance Report

Program:	Natural Yard Care					
Department/Division	: Utilities/Resource Management Customer Service (RMCS)					
Permit Requirement	:					
· · · · · · · · · · · · · · · · · · ·	build general awarenessabout the stormwater problem and ctions they can follow to minimize the problem.					
	effect behavior change about the stormwater problem and ctions they can follow to minimize the problem.					
	nform and distribute appropriate information to target audiences about the ated with illegal discharges and improper disposal of waste.					
Target Audience(s):	General Public; Residents; Property Owners					
Subject Area(s):	General Impacts of stormwater on surface waters; Yard care techniques protective of water quality; Use and storage of pesticides and fertilizers and other household chemicals					
Program Description : The Natural Yard Care (NYC) program provides education and how-to-resources to Bellevue homeowners on yard care best management practices that encourage yard care behavior change to conserve and protect water resources, reduce yard waste and enhance public health.						
2015 Accomplishmen	2015 Accomplishments : □ New X Ongoing □ One Time □ Other					
The desired behavior of	The desired behavior changes of the Natural Yard Care Program correlate directly with the five steps of					

The desired behavior changes of the Natural Yard Care Program correlate directly with the five steps of NYC: 1) build healthy soil, 2) plant right for your site, 3) practice smart watering, 4) think twice before using pesticides, and 5) practice natural lawn care. These practices are typically promoted through City communication opportunities and special events. The practices are also modeled and promoted through the City's Waterwise Garden at the Bellevue Botanical Garden (BBG).

This year outreach education materials included an updated series of Natural Gardening Guides that introduce homeowners to essential NYC behaviors and their rewards. The thirteen guides are made available on the City's website and form the foundation of the BBG's "Going Green" webpages. The outreach education materials also included an updated organic sunflower seed packet used to connect residents to the City's on-line NYC resources. The packets were distributed at the BBG and at special events. Outreach tables/displays featuring NYC were set up at the BBG and Bellevue Farmers Markets (summer). Staff responded to questions from visitors during the events, connecting visitors to NYC resources as appropriate. Copies of the City's popular Natural Gardening Guides were also distributed through City Hall and the BBG information/education areas. A total of approximately 5,000 printed copies of the seed packets and various guides were distributed. The NYC practices were also the basis of the BBG's new interactive garden points of interest web and audio tours available to visitors via their cell phones. NYC resources can be found at: http://www.bellevuewa.gov/natural-gardening-resources.htm.

Public Education & Outreach Attachment 2016 Compliance Report

Program: Paint Program

Department/Division: Utilities/Resource Management Customer Service (RMCS)

Permit Requirement:

- X <u>S5.C.1.a.i.</u> To build general awareness...about the stormwater problem and provide specific actions they can follow to minimize the problem.
- X <u>S5.C.1.a.ii.</u> To effect behavior change... about the stormwater problem and provide specific actions they can follow to minimize the problem.
- X <u>S5.C.3.d.</u> To inform and distribute appropriate information to target audiences about the hazards associated with illegal discharges and improper disposal of waste.

Target Audience(s): General Public; Businesses; Residents; Property Owners

Subject Area(s): Use and storage of automotive chemicals, hazardous cleaning supplies, car

wash soaps and other hazardous materials; Impacts of illicit discharges

and how to report them; prevention of illicit discharges.

Program Description:

2013 marked the beginning of a new outreach task aimed at informing paint retailers and their customers about options for proper paint disposal and recycling. Task work began by recruiting interested paint retailers in Bellevue willing to distribute information to their contractor and residential customers (paint sticks imprinted with stormwater pollution prevention messaging, and paint brochures). We are proud to report that we were ultimately successful in gaining participation from management at 100% of paint retailers in Bellevue, equating to 14 sites.

2016 Accomplishments: X New	X Ongoing	☐ One Time	□ Other	
------------------------------------	-----------	------------	---------	--

This year marked the fourth year of an outreach task aimed at informing paint retailers and their customers about options for proper paint disposal and recycling. These sites have proven to be an excellent conduit for information to paint contractors and residents with leftover paint. Many sites can hardly keep in stock the educational stir sticks provided by the program to each participating retailer.

Attachments:





PAINTING BEST MANAGEMENT PRACTICES

The following paint disposa and cleanup guidelines will help you protect the environment and comply



If you have questions about Bellevue's storm and surface water system, or code requirement please call 425-452-7840 or email utilities@bellevuewa.gov

Jobsite Procedures

- Use ground cloths to collect dust and
- Shelter spray painting areas with
- Use drip pans in areas where paint,
- carried, and applied.
- Sweep and/or vacuum the area when
- Clean, store, and dispose of residual



Employee Training

Frope employee training is key to successfully implementing thest management practices. Establish and document a regular training schedule for all new and existing employees and conduct annual refresher purses. Tale membrase on:

- Stormwater discharge restriction and wastewater discharge requirements;
- Careful and appropriate
- Proper spill containment, respons

Disposal of Excess Paint

Never pour paint into a storm drain

Latex Paint

- Liquid paint do not throw in the garbage.
 It is no longer accepted at King County transmission or lease the participants.
- Unwanted paint use it up or give it away.
 Check with local nonprofits to see if they
- Residual paint air dry, or use kitty litter or paint hardener until solid and then put the
- Cans in the garbege.
 Deanup of latex paint brushes, rollers, and tools wastewater can go into a sink



Oil-based Paint

 Equid, surplus, or residual oil-based pain cannot go in the garbage (even in small quantities). Dispose through a ficetoed hazardous waste firm.

- Brushes, containers, and tools used to apply sil-based paints, finishes, and solvents must be disposed through a licensed hazardous
- Clean, store, and dispose of residual paint and materials properly.
 Locale a licensed historicus waste management fire
- WOTE If you known over government more than 201 proveds beginned with 201 policins) a market basedus a seekle, you was be also be dispose of excess of haved pain, when, and used thinness from the program in the familiar frauentials Value facility. Death at wew throming partitions (MINNING pains).

The City of Bellevue's storm drainage system is not connected to a sewage treatment facility. Runoff entering storm drains flows untreated into local streams lakes, and wetlands. Protect water quality by following "best

Remember, it is illegal to pollute waterways. all 425-452-7840 to repor

forcement

Bellevue relies primarily on public education and voluntary corrective actions to activate compliance; however, discharging pollutants into storm drains or waterbodies will be documented and can result

- The city reserves the night to proceed directly to a Native of Violation, which can result in fines of \$500 per day or more (8CC 1.18.075(6)(2)(3)). For repeat violations that occur within two years of a previous violation, the following penalties
- For the first repeat violation the penalty may
- may equal up to \$2,000 per day.

 c. For the third repeat violation, the penalty ma
- For the third repeat violation, the penalty ma equal up to \$3,000 per day;
- d. For the fruith repeat violation, the penalty may orguel up to \$4,000 per day, and a For each additional violation that may occur
- beyond the fourth repeat violation, the penalty may equal up to \$5,000 per day.

Additional Information

City of Bellevue, Stormwater Runoff Menagement:

hank you for keeping our shared vaters healthy for people, fish, and wildlife.

26 schools.

Public Education & Outreach Attachment 2016 Compliance Report

Program:	Public Storm Drain Marking Program			
Department/Division :	Utilities/Operations and Maintenance, Water Quality			
Permit Requirement:				
	ld general awarenessabout the stormwater problem and actions they can follow to minimize the problem.			
· · · · · · · · · · · · · · · · · · ·	fect behavior change about the stormwater problem and provide ney can follow to minimize the problem.			
	rm and distribute appropriate information to target audiences about the d with illegal discharges and improper disposal of waste.			
Target Audience(s): Ge	eneral Public			
•	eneral impacts of stormwater on surface waters; prevention of illicit scharge.			
Pollute, Drains to Stream The program educates the	I marking all public storm drains with the permanent message, "Don't a." The four-inch, colorful plastic markers are highly visible and durable. It is public that surface water flows largely untreated into streams, lakes sual reminders on every public storm drain.			
	e been customized for most easily recognized streams such as Kelsey r areas they say they drain to stream or lake.			
	in 2009 found that 75% of participants had seen the markers, and unanimously positive about the markers' value as a pollution prevention of public funds.			
Storm drain marking continues every summer as original markers need replacement, pavement overlays require new marking, and program is expanded onto parks and school properties.				
2016 Accomplishments:	□ New X Ongoing □ One Time □ Other			
In 2016, efforts were focused on City Parks and Public Schools including the Issaquah schools that are located within the Bellevue City limits. Markers were applies in and around 27 parks and				

Starting in summer 2016, the presence or absence of storm drain markers has been added to the stormwater crew's mobile catch basin inspection list. As catch basins are inspected every other year, this effort will help generate a map of where the most markers are missing to direct work most efficiently in the future.

Generic storm drain markers are available for private properties like commercial or multifamily units upon request. We usually receive a few requests each year and offer to deliver materials or mark them ourselves.



comment:

Public Education & Outreach Attachment 2016 Compliance Report

Program:	School Workshops			
Department/Division:	Utilities/Resource Management Customer Service (RMCS)			
Permit Requirement:				
	actions they can follow to minimize the problem.			
· · · · · · · · · · · · · · · · · · ·	ffect behavior change about the stormwater problem and provide they can follow to minimize the problem.			
· · · · · · · · · · · · · · · · · · ·	orm and distribute appropriate information to target audiences about the ed with illegal discharges and improper disposal of waste.			
Target Audience(s): G	General Public (including school age children)			
Subject Area(s): General impacts of stormwater on surface water; impacts from impervious surfaces; opportunities to become involved in stewardship activities; pet waste management and disposal; prevention of illicit discharges.				
prevention. "Be the Sol that reflects the City's keep." The City also provides a	ps to schools in the Bellevue School District that focus on pollution ution" is an interactive workshop targeting high school biology students ey conservation goals and specific pollution prevention messages.			
•	to involve and engage students in educating the community about the ocal stormwater. The program is called, Student Action Campaign: Local Stormwater.			
2016 Accomplishments	s: \square New X Ongoing \square One Time \square Other			
more than 1,000 second	workshop, which began in 2009 and continues annually, is presented to ary students in 36 student groups in at seven schools within the city and December 2016. Feedback from teachers includes the following			

• "They [students] have become very concerned about the pollution of storm drains and sewage systems and the health of the watershed."

The Student Action Campaign was presented to 658 students in 11 student groups at seven schools within the City between January 2016 and December 2016. All students in campaign classes pledged to always scoop, bag, and trash their dog's waste or to educate others if they did not own a dog. To begin their campaign, this student group first completed a classroom survey of their own families and pets. The results were as follows:

• Number of homes/families in class with cats: 62

• Number of cats total: 94

• Number of homes/families in class with dogs: 133

• Number of dogs total: 164

• 41 pounds of daily dog waste pledged to pick up

Students worked together to provide information in their school's morning announcements and to create educational posters on this topic that were posted throughout the school and then taken home to share the information with families. A total of 510 teachers and additional staff members and 4,630 students attending the school were able to view the posters around the school grounds.

Every student was assigned a family Poo-llution Quiz to make their household aware of how they currently deal with their dog's waste. Students who do not own a dog used the quiz to interview a neighbor or friend of the family who did own at least one dog.



Public Education & Outreach Attachment 2016 Compliance Report

☐ One Time ☐ Other_____

Program:	Online and Print Materia	als			
Department/Division:	/Division: Utilities/Operations and Maintenance, Water Quality				
Permit Requirement:					
X <u>S5.C.1.a.i.</u> To build gener to minimize the problem.	al awarenessabout the storm	water problem and provide specific actions they can follow			
to minimize the problem.	-	nwater problem and provide specific actions they can follow			
X S5.C.3.d. To inform and c illegal discharges and imprope		on to target audiences about the hazards associated with			
Target Audience(s):					
X General public X Busin	nesses □ Engineers contrac	ctors, developers, Land use planners			
X Residents, landscapers and	•	☐ Public employees			
Subject Area(s):					
\mathbf{X} General impacts of stormwater	on surface waters	X Impacts from impervious surfaces			
${f X}$ Impacts of illicit discharges and	how to report them	☐ Low impact development (LID) principles & LID BMP's			
\mathbf{X} Opportunities to become involv	ed in stewardship activities	☐ Technical stds for stormwater site & erosion control plans			
☐ Stormwater treatment and flow	control BMP's/facilities	☐ Equipment maintenance			
X Use and storage of automotive of	chemicals, hazardous cleaning	supplies, car wash soaps and other hazardous materials			
X Prevention of illicit discharges		X Yard care techniques protective of water quality			
9	nd fertilizers and other househo	old chemicals X Carpet cleaning and auto repair maintenance			
☐ Vehicle, equipment and home/b		X Pet waste management and disposal			
☐ Stormwater facility maintenance	-	☐ Dumpster and trash compactor maintenance			
in Stormwater facility maintenance	5	in Dumpster and trash compactor maintenance			

Program Description: Materials are available online, at city locations as appropriate (City Hall, Mini City Halls, Parks Visitor Centers), handed out by staff like private drainage inspectors, and available upon request.

X Ongoing

Businesses:

- Series of three pollution prevention posters and videos for businesses (i.e., Washing the Fleet, Spill Something, and Cleaning Up) (multiple languages)
- Your Local Stream Starts Here brochure

2016 Accomplishments: □ New

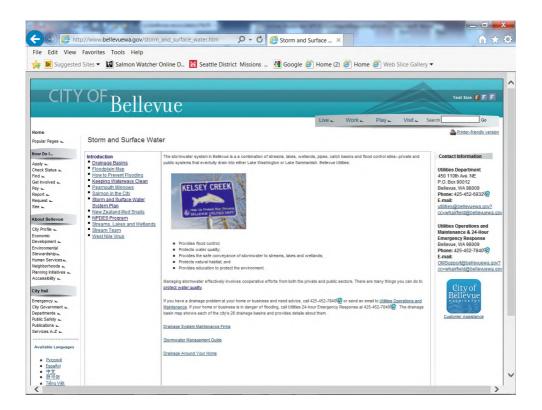
- Stormwater Pollution Prevention Code card
- Painting Contractor Best Management Practice brochure
- Pressure Washing Contractor Best Management Practice brochure

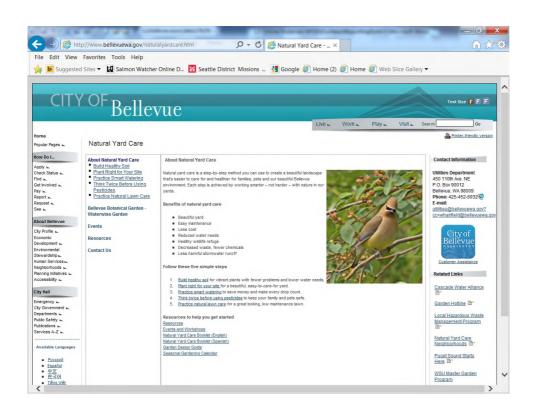
Residents:

- Clean Water in Your Community brochure and poster (multiple languages)
- Proper car care practices and hazardous waste disposal
- Natural Yard Care web page and materials

- Stormwater FAQ's
- Carbon Yeti Program
- Examples:













Keeping Our Waterways Clean

Frequently Asked Questions

What causes pollution in streams and lakes?

What causes pollution in streams and takes?
Some of the biggest causes of water pollution are sources that are hard to trace to a single place. When it rains, stormwater washes over streets and yards, collecting fertilizers, pesticides, oil, antifreeze, soil, pet waste, and other pollutants. They all wash into som drains and end up polluting waterways and harming salmon and other fish and wildlife that live there.

Isn't soil "natural?" Why would it hurt water? Soil, grass clippings and other natural debris may seem harmless, but they can clog the storm drainage system and increase the chance of flooding. Plant matter washed into waterways deprives aquatic life of oxygen as organics break down. Soil washed down storm drains clouds water, making it unsuitable for swimming. Sediment also smothers salmon eggs and damages aquatic habitat.

Are sewers and storm drains the same thing? No. In Bellevue, they are two completely different systems. Wastewater from your sinks, showers, and tollets is discharged into the sewer system and treated before being released into Puget Sound. Stormwater entering the storm drains flows directly to streams, lakes, and wetlands

Where do I take Household Hazardous Waste, like oil-based paint, pesticides, and cleaners? Household hazan us wa te can be disposed of at the Household hazardous waste can be disposed of at the Factoria Transfer Station ² Household Hazardous Waste Drop-off site located at 13800 SE 32⁵⁰ St. It is open Tuesday – Sunday, from 9am to 5pm. When shopping next time, choose safer, less hazardous products.

Do NOT out household hazardous waste in the garbage or

What should I do with Latex Paint?

Latex (water-based) paint is no longer considered hazardous. If you can't use it up or give it away, <u>drv it</u> out by mixing in kitty litter and then place it in the garbage.

Do NOT put wet latex paint in the garbage.

What's the best way to wash my car? The most environmentally-friendly method of car washing is to go to a commercial car wash where about 60 percent is to go to a commercial car wash where about 60 percent of the water is recycled, and the dirty water goes to the sewer system for treatment. Car wash water is full of pollutants such as soap, oils, suspended solids, heavy metals, and other toxics. These pollutants can harm water quality for recreational activities. They can also damage fish eggs and a salmon's sense of smell, which can impact behaviors such as homing, foraging, and predator avoidance. If you wouldn't drink it or swim in it, don't put it down storm drains!



Actions you can take to prevent water pollution:

- Use fertilizers and pesticides sparing compost. Practice Natural Yard Care. aringly or just use
- . Take the car to a commercial car wash.
- . Fix car oil leaks and don't overfill your gas tank.
- . Scoop pet poop, bag it, and throw it in the trash.
- Make sure workers around your home don't wash equipment near storm drains.
- Use less hazardous products. Dispose of Household Hazardous Waste properly at the Factoria Transfer Station.
- Keep grass clippings, leaves, soil, and other debris away from storm drains.
- Maintain <u>septic systems</u> properly.
- Drain swimming pools and spas properly.
- Take extra care if you live near a <u>lake or stream.</u>
- . Volunteer! Take part in a Stream Team activity.
- Mark your neighborhood <u>storm drains</u>. Call Utilities at 425-452-6166.



STORM DRAIN

Water in storm drains flows untreated into our and wetlands!

Your actions can contribute significantly to stormwater pollution. Be part of the solution.

- Never pour or wash anything into a storm drain including dirty water, oil, paint, chen spills, auto fluids or soapy water (even biodegradable soap pollutes).
- Never allow liquid from dumpsters, parts bins, or other containers to leak into the storm drain. Use appropriate secondary containment.
- Wash vehicles in a facility where all wash water goes to the sewer for treatment. If washing onsite, make sure water drains to a gravel or grassy area.

sinks, toilets, and indoor drains flows to a sewage treatment plant where it is treated before being released into Puget Sound.





PRSRT STD U.S. POSTAGE PAID BELLEVUE, WA PERMIT NO. 61





y of Bellevue Utilities o stoth Ave. NE . Box 90012 llevue, WA 98009 CITY P.O. Belle

Public Education & Outreach Attachment 2016 Compliance Report

Program:	Public Events	
Department/Division :	Utilities/Operations and	Maintenance, Water Quality
Permit Requirement:		
X <u>S5.C.1.a.i.</u> To build gener follow	al awarenessabout the storm to minimize the problem.	water problem and provide specific actions they can
X <u>S5.C.1.a.ii.</u> To effect behat follow to minimize the problem		nwater problem and provide specific actions they can
X <u>S5.C.3.d.</u> To inform and dillegal discharges and imprope		on to target audiences about the hazards associated with
Target Audience(s):		
X General public ☐ Busin X Residents, landscapers and p	•	ctors, developers, Land use planners Public employees
Subject Area(s):		
\mathbf{X} General impacts of stormwater of	on surface waters	X Impacts from impervious surfaces
old X Impacts of illicit discharges and	how to report them	☐ Low impact development (LID) principles & LID BMP's
${f X}$ Opportunities to become involve	ed in stewardship activities	☐ Technical stds for stormwater site & erosion control plans
\square Stormwater treatment and flow of	control BMP's/facilities	☐ Equipment maintenance
${f X}$ Use and storage of automotive ${f c}$	chemicals, hazardous cleaning	supplies, car wash soaps and other hazardous materials
${f X}$ Prevention of illicit discharges		X Yard care techniques protective of water quality
${f X}$ Use and storage of pesticides an	d fertilizers and other househo	old chemicals X Carpet cleaning and auto repair maintenance
\square Vehicle, equipment and home/b	uilding maintenance	X Pet waste management and disposal
☐ Stormwater facility maintenance		☐ Dumpster and trash compactor maintenance
2016 Accomplishments:	X New X Ongoing	□ One Time □ Other

Program Description:

Displays, activities, and outreach material at public events including:

- Elementary School Science Fairs
- Farmers Markets
- City events such as Arbor Day / Earth Day

Materials and activities include:

- Poop Toss game to educate about proper pet waste disposal
- Vehicle Leak Card
- At-home vehicle Leak Check Sheet
- Free car wash ticket with car washing brochure
- Pollution Prevention buttons and frisbees





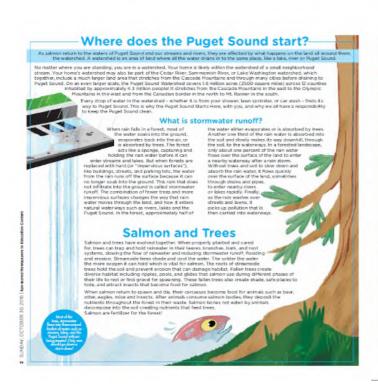


Public Education & Outreach Attachment 2016 Compliance Report

Program:	Program : STORM and SOGgies Regional Programs				
Department/Division: Utilities/Operations and Maintenance, Water Quality					
Permit Requirement:					
X <u>S5.C.1.a.i.</u> To build gener follow	ral awarenessabout the storm to minimize the problem.	nwater problem and provide specific actions they can			
follow to minimize the proble	m.	nwater problem and provide specific actions they can			
X <u>S5.C.3.d.</u> To inform and dillegal discharges and improper		ion to target audiences about the hazards associated with			
Target Audience(s):					
X General public X Busin X Residents, landscapers and	•	ctors, developers, Land use planners Public employees			
Subject Area(s):					
${f X}$ General impacts of stormwater	on surface waters	X Impacts from impervious surfaces			
\square Impacts of illicit discharges and	how to report them	☐ Low impact development (LID) principles & LID BMP's			
\square Opportunities to become involv	ed in stewardship activities	☐ Technical stds for stormwater site & erosion control plans			
\square Stormwater treatment and flow	control BMP's/facilities	☐ Equipment maintenance			
X Use and storage of automotive	chemicals, hazardous cleaning	supplies, car wash soaps and other hazardous materials			
${f X}$ Prevention of illicit discharges		X Yard care techniques protective of water quality			
		old chemicals X Carpet cleaning and auto repair maintenance			
${f X}$ Vehicle, equipment and home/b	ouilding maintenance	X Pet waste management and disposal			
☐ Stormwater facility maintenance	2	☐ Dumpster and trash compactor maintenance			
2016 Accomplishments	□ New X Ongoing	□ One Time □ Other			

Program Description: The City of Bellevue is an active participant in STORM (STormwater Outreach for Regional Municipalities) and SOGgies (a smaller local Stormwater Outreach Group made up of neighboring cities) in the following ways:

- Lead for SOGgies' Seattle Times Newspapers In Education 8 page Sunday insert. The insert is distributed to every Sunday Seattle Times customer, available online, and send to all participating Newspaper In Education educator (free service with widespread regional use.) Coordinated content, edits, and budget for 14 partners. Example pictured below.
- Hosting meetings several times every year
- Serving on subcommittees for Mobile Business Outreach, Don't Drip & Drive, and Drain Rangers
- Recruiting local auto repair shops to participate in Don't Drip & Drive campaign
- Promoting Puget Sound Starts Here





Spensored Herespapers in Education Content | SUNDAY, DCTDBER 30, 301

Public Education & Outreach Attachment 2016 Compliance Report

Program:	Stream Team				
Department/Division: Utilities/Operations and Maintenance, Water Quality					
Permit Requirement:					
follow to minimize the proble X S5.C.1.a.ii. To effect beh follow to minimize the proble X S5.C.3.d. To inform and illegal discharges and improp	m. avior change about the storn m. distribute appropriate informati	nwater problem and provide specific actions they can nwater problem and provide specific actions they can ion to target audiences about the hazards associated with			
Target Audience(s):					
X General public ☐ Busin X Residents, landscapers and	_	ctors, developers, Land use planners Public employees			
Subject Area(s):		W			
X General impacts of stormwater		X Impacts from impervious surfaces			
X Impacts of illicit discharges and	-	☐ Low impact development (LID) principles & LID BMP's			
X Opportunities to become involv ☐ Stormwater treatment and flow	-	☐ Technical stds for stormwater site & erosion control plan			
		Equipment maintenance			
X Prevention of illicit discharges	chemicais, nazardous cleaning	supplies, car wash soaps and other hazardous materials X Yard care techniques protective of water quality			
	nd fertilizers and other househo	old chemicals X Carpet cleaning and auto repair maintenance			
X Vehicle, equipment and home/		X Pet waste management and disposal			
☐ Stormwater facility maintenance	· ·	☐ Dumpster and trash compactor maintenance			
2016 Accomplishments	X New X Ongoing	☐ One Time ☐ Other			

Program Description:

Stream Team volunteers gather important information about Bellevue's streams, lakes, and wetlands and help improve the City's fish and wildlife habitat in a variety of ways:

- Salmon Watcher: Volunteers monitor local streams for salmon returning in the fall, visiting a site for 15 minutes twice a week from September through December and reporting when, where and what type of salmon are sighted. They attend a two-hour workshop in September.
- Peamouth Patrol: Volunteers check local streams for 15 minutes twice a week from mid-April through May. They record spawning times and use of Bellevue streams. The volunteers attend a one-hour workshop in April before visiting the streams.
- Invertebrate Sampling: Staff and volunteers collect invertebrate samples from Bellevue streams for water quality monitoring.
- Summer Residential Fish Monitoring
- Ads for vehicle leaks, car washing, and pet waste:

- Bellevue Reporter full page back car wash cartoon ad and full page ad in 2015
 Resident's guide
- o Bellevue Downtown Association full page back ads, all 4 seasons, for car washing, vehicle leaks, and pet waste
- o Bellevue Ice Arena Dasher board ads for car washing and vehicle leaks
- o Theater ads at Lincoln and Crossroads vehicle leaks
- o Seattle Times See information in report under STORM SOGgies Regional Programs
- o City's On Hold message encourages residents to use a commercial car wash
- Stream Team reaches about 4,000 people directly each year through presentations and educational events. An average of 100 volunteers per year participate in stream restoration and monitoring projects.

Outreach Material:





Figure 1 BDA magazine back covers, spring & summer editions



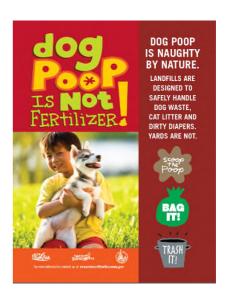




Figure 4 Ice Rink Dasher Boards

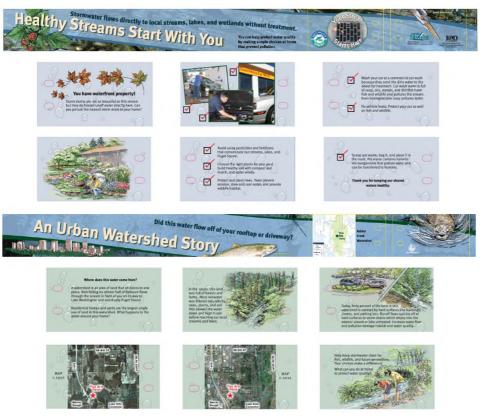


Figure 5 Kelsey Creek Interpretive signs at 121st and SE 8th st



Figure 6 Flyer with vehicle leak check kit

IDENTIFY AND FIX COMMON CAR LEAKS

- Slide the Drip Test Sheet under your car. We recommend doing this as soon as you turn your car off while the engine is still warm.
- 2 Leave the sheet and curing plants for a few hours or even overnight.
- 3 Check the drip sheet for leaks.
- Take note of the color, texture, and location of any leaks.
- 5 Use the color chart to help identify what your results made what your results mean.
- Contact your mechanic for further evaluation and repair of any leaks.

What's leaking under my car? Here are six fluids that are likely to drip from your car, and how to recogn

Transmission Fluid Reddish and thin or brown and thick, in the middle and towards the front of car

Power Steering Fluid
Amber or reddish or light
brown and thin, very front
of vehicle

Brake Fluid Clear to brown, slightly yellow and slick, often appears near



Water Clear and thin, under front of car - condensation from air-conditioning system











Public Education & Outreach Attachment 2016 Compliance Report

Program: Development Services (DS)

Department/Division: Development Services Department

Permit Requirement:

X <u>S5.C.1.a.i.</u> To build general awareness...about the stormwater problem and provide specific actions they can follow to minimize the problem.

<u>S5.C.1.a.ii.</u> To effect behavior change... about the stormwater problem and provide specific actions they can follow to minimize the problem.

X <u>S5.C.3.d.</u> To inform and distribute appropriate information to target audiences about the hazards associated with illegal discharges and improper disposal of waste.

Target Audience(s): Engineers, contractors, developers, residents, DS planners and

plan reviewers, and other public employees

Subject Area(s): Technical standards for stormwater site and erosion control

plans, LID principles and LID BMPs, stormwater treatment and flow control BMPs/facilities, impacts and prevention of illicit discharges, hazards associated with illegal discharges and

improper disposal of waste.

Program Description: Development Services is a combination of the Development Services Department (building, land use, clearing & grading, and code compliance) and the plan reviewers and inspectors from the Fire, Transportation (right of way and new development), and Utilities Departments. Most of the development services staff is co-located to facilitate project consultations and internal and external training.

Development Services maintains a Permit Center (open to the public on weekdays from 8 a.m. to 4 p.m.) that is staffed continually, where we communicate in person one-on-one or on the phone with members of our target audiences daily and where submittal requirements and many handouts are readily available.

2016 Accomplishments:	X New X Ongoing	One Time	Other
Most of our outreach and education is customary continued the following:		ongoing in Develo	opment Services. We
☐ Submittal requirement a	and forms updates.		

- Reiteration with Code Compliance and Clearing & Grading staff of the importance of construction-related illicit discharge incident reporting and the process to handle illicit discharges, enforcement actions, and reporting requirements.
- Continued staff education in team meetings (Land Use, Clearing & Grading, and Code
 Compliance as well as other Development Services reviewers and building inspectors) on
 impacts from impervious surfaces and reduction of stormwater runoff from new development,
 redevelopment, and construction sites.
- Informal cross-department meetings to talk about illicit discharge response and extensive communication with engineers, contractors, and developers in the Permit Center and at project sites.
- Pre-application conferences on certain permit types to give potential applicants early feedback on their development concepts and help with developing a complete formal application and a project design consistent with the city's codes and policies.
- Education for Utilities, Land Use, and Clearing & Grading customers (engineers, developers, contractors, homeowners) in the Permit Center.
- Customer education in the field during regular inspections and compliance cases; often, a clearing & grading inspector accompanied a code compliance officer on a case.

New items of focus in 2016 centered on Low Impact Development principles and appropriate code and standards changes. Highlights in 2016 included:

- Creation and maintenance of a City of Bellevue LID webpage.
- Continual meetings of the city LID Principles Project Team (project leads, the internal technical team, and our consultants) to:
 - -Review development-related codes, rules, standards, and other documents for opportunities to incorporate and require LID principles and best practices.
 - -Develop specific areas of project focus, which include impervious surface coverage, tree canopy, clustering, and site design.
 - -Begin the process of addressing options to make LID the preferred and commonly used approach to site development.
- Four workshops between September 30, 2015 and December 9, 2015 (for residents and the
 development community) to provide information on reducing vegetation loss, impervious
 surface coverage, and stormwater runoff, as well as to get customer feedback on the LID
 Principles Project and the state requirements.
- Six briefings on the LID Principles Project to City Council, East Bellevue Community Council, Planning Commission, Transportation Commission, Parks Board, Master Builders of King and Snohomish Counties
- Adoption of LID principles and code changes December 2016.

Public Education & Outreach Attachment 2016 Compliance Report

Program: Clearing & Grading Inspection Program

Department/Division: Development Services Department

Permit Requirement:

X <u>S5.C.1.a.i.</u> To build general awareness...about the stormwater problem and provide specific actions they can follow to minimize the problem.

<u>S5.C.1.a.ii.</u> To effect behavior change... about the stormwater problem and provide specific actions they can follow to minimize the problem.

X <u>S5.C.3.d.</u> To inform and distribute appropriate information to target audiences about the hazards associated with illegal discharges and improper disposal of waste.

Target Audience(s): Engineers, contractors, developers, land use planners,

and public employees

Subject Area(s): Technical standards for stormwater site and erosion control

plans, LID BMPs, impacts and prevention of

illicit discharges, hazards associated with illegal discharges and

improper disposal of waste.

Program Description: The Clearing and Grading Inspection Program staff inspects and enforces requirements of the Clearing and Grading code and permit conditions on new development and redevelopment construction sites. This includes inspecting the permittee's construction stormwater pollution prevention plans (CSWPPP) and addressing illicit discharges originating from permitted construction sites. Field inspectors and code compliance officers educate their customers (contractors, developers, engineers, property owners) on erosion and sediment control requirements, low impact development best management practices, and the impacts and prevention of illicit discharges during regular inspections. Education is the first tool in the City's escalating enforcement strategy for illicit discharges. The inspectors in turn receive education on erosion and sediment control practices, low impact development best management practices, illicit discharge response, and hazards associated with illegal discharges.

2016 Accomplishments:	New X Ongoing	One Time	Other	
Education of contractors, dev	elopers, engineers, proper	ty owners as well	as City inspec	ction staff
was customary and ongoing.				

City of Bellevue NPDES OUTREACH PROGRAM ASSESSMENT Measure Understanding and Adoption Of a Targeted Behavior for One Target Audience (S5.C.1.c)

FUNDRAISING CAR WASH OUTREACH PROGRAM DESCRIPTION

The City of Bellevue has contracted with *Full Circle Environmental* to conduct *City of Bellevue On-Site Car Wash Outreach Program* since 2006.

City of Bellevue uses this program to comply with *Western Washington Phase II Municipal Stormwater Permit* (NPDES permit) outreach requirement S5.C.1.a.ii. This document details the City of Bellevue's assessment of understanding and adoption of a targeted behavior by a targeted group as mandated by NPDES permit provision S5.C.1.c.

Before 2016, the program included

- car wash kits available for check-out at city hall and some gas stations,
- drop-in car wash outreach on selected weekends (began in 2006) and,
- pre-season outreach to secondary schools and businesses that have held car washes (began in 2009).

Since evaluating the program in early 2016, the City of Bellevue decided to no longer provide car wash kits. Current outreach includes:

- updated information online about preventing car wash pollution and list of alternatives,
- updated webpage,
- Pre-season and Drop-in outreach informs hosts, schools, and fundraisers about pollution prevention and alternatives to car washing.

TARGET BEHAVIORS AND AUDIENCES

Targets audiences: fundraisers, schools, and businesses that have hosted fundraising car washes.

Targeted behaviors for school groups: choose a fundraiser that does not cause pollution.

Targeted behaviors for schools: do not approve car washing as a fundraiser and provide the list of alternative options to students and leaders looking for ideas.

Targeted behaviors for property owners: do not allow fundraising car washes on their property unless they are taking full responsibility themselves for preventing stormwater pollution on their property.

EVALUATION OF TARGETED AUDIENCES AND BEHAVIORS

An extensive review was performed of the 10 years of reports from drop-in outreach and education at active fundraising car washes. Research findings included:

The car wash kit program had mixed results.

- 9 sites no longer host car washes. However, 9 new sites have begun hosting car washes in the last 5 years.
- The amount of car washes being held without a kit has decreased. However, the number of kits not properly set up remains high and is predicted to get worse as one of the most successful sites (where gas station staff used to set up the kit for the fundraisers) will no longer be hosting fundraising car washes as of 2016. We can assume fundraisers will likely go elsewhere and have to set up the kits on their own. When groups set up the kits on their own, they have only properly set up the kit and diverted the water 53% of the time.
- We have been distributing information about car washing and a list of alternate fundraising ideas for many years yet many groups continue to wash cars.
- Several schools no longer approve car wash fundraisers because of our outreach efforts.
 Unfortunately, many of the sports groups washing cars are not affiliated directly with the school.

Fundraising car wash kit education and outreach requires constant annual effort.

- 9 new sites have started allowing car washes in last 5 years.
- Turnover of staff/management at sites like gas stations is high.
- Staff/management different can be different on day of car washes than on day of preemptive outreach, may not understand responsibility.
- High turnover of leaders and members of fundraising car wash groups (parents and their schoolaged kids).
- On-site kits malfunction or parts are missing.
- Site challenges like an abandoned car over the drain or fencing require troubleshooting.
- New sites should be inspected by a Private Drainage Inspector for approval before a car wash is held. Many require specific instructions to safely contain and drain the wastewater.
- Check-out kits are not complete upon return, require replacement of broken parts, or staff have to repeatedly follow up with citizens who checked them out to ensure their return.

Despite in-person outreach, educational material, and directions provided, kits are regularly not setup properly to prevent pollution.

• Over the last 10 years, when a group sets up the kit themselves, 53% fail to properly set up the kit and effectively divert the waste water.

• When a business sets up a kit for a fundraising group, kits are properly working 84-91% of the time. HOWEVER, the one business in Bellevue that was still doing this has decided to stop hosting fundraising car washes after 2015.

Challenges to educating fundraisers include:

- Groups come in from outside of Bellevue. We have had fundraisers from Tacoma, Sammamish, Issaquah, and multiple groups representing the Eastside as a whole but may not be based out of Bellevue
- High turnover in fundraising group members (school aged children and their parents)
- New groups can decide to start raising money by washing cars at any time. While we reach out to all secondary schools and known car wash sites, we cannot begin to guess who might be next.

Problems with properly setting up kits were extensive

- Site issues
 - Water draining to more than one drain
 - Best place to wash cars to divert water is sometimes not best place to wash cars to increase visibility for business
 - Object or abandoned car over drain needed to install kit
 - Material stored over drain
 - No storm drain on property, drains to neighboring property
 - No accessible electrical outlet
 - Cars drive over hose
 - Hose not long enough to reach sewer or pervious surface
 - Nowhere to wash cars on site without blocking handicap parking
 - The only drains on site were huge daylighting grates over Kelsey Creek
 - Every site is different, inspection required prior to use for car washing

Kit issues

- Pump is too slow or stops working
- Hose not long enough to reach sewer or pervious surface
- Basin broken someone drove over it
- Missing pieces or instructions
- The kit does not have a good seal around the basin (also site issue)
- o Fundraising group issues
 - Person who checked out the kit and learned how to use it not at the actual event
 - Checked out kit but simply do not set it up on day of event
 - Complain the kit is heavy/confusing/frustrating
 - Don't notice kink in hose or water pooling
 - No parent/adult/supervisor on site during car wash
 - Did not read directions kit not properly set up (example pump set up outside of basin)
 - Wash cars without a kit despite receiving outreach and using kit before

- Do not rinse the site down thoroughly after the event
- Concerned about raising money, not protecting the environment
- Many groups come from outside of Bellevue, not local groups

o Host site issues

- Person in charge accepting responsibility not actually there on the day of the car wash
- Kit on site but staff did not give it to fundraisers
- Agree to host but do not take any responsibility for making sure kit is set up properly
- Refuse to help fundraiser set up the kit
- Say they are not allowing car washes and then allow them again later

Safety/Liability Concerns

- One group crawled under an abandoned car to install the kit in the proper drain
- Drain covers are very heavy and awkward
- Safety cones not always used around the open hole
- Electrical cords sometimes sitting in water

PROGRAM IMPROVEMENT

Because the evaluation has shown that the behavior of properly setting up a car wash kit has proven to be challenging despite a decade of outreach, the City of Bellevue decided to stop loaning out the fundraising car wash kits. Outreach has been modified to inform all stakeholders of the change, provide messaging on why, and offer a list of alternative fundraisers.

2016 outreach included:

- Website update
- In person outreach to all secondary schools and 15 businesses who have previously hosted car washes to deliver letter regarding change, reasons for change, and list of alternative fundraising options
- Email letter and information to 38 fundraisers who have held fundraising car washes in Bellevue in the past
- Drive-around inspections several weekends to monitor compliance. Only one car wash was found although they received notice of the change twice (email and phone)
- Presentation about research process and new program at 2016 STORM Symposium

NPDES Western Washington Phase II Municipal Stormwater Permit # WAR45504

CITY OF BELLEVUE

QUESTION #20 DOCUMENTATION

Summary

Question # 20: Attached a summary of the action taken to characterize, trace and eliminate each illicit discharge found by or reported to the permittee. For each illicit discharge, include a description of the actions according to required timelines per S5.C.3.d.iv.

Bellevue responds to, investigates and reports illicit discharges and illicit connections. Most of them can be stopped and/or eliminated immediately or within a short period of time if the source is identified. After containment and clean-up (either by the responsible party or by the City of Bellevue if the responsible party is not identified); education, housekeeping and/or structural best management practices are employed to minimize reoccurrence. Illicit connections generally take a longer period of time to fully eliminate. Bellevue had one illicit connection and it was mitigated within the permit-specified time line.

Bellevue staff responded to a total of 181 reported illicit discharges and one illicit connection in 2016. These included discharges and connections originating from both permitted construction activities and other reported activities on the private and public properties.

Bellevue received a total of 181 reports of potential illicit discharges. After investigation, only 82 were deemed actual illicit discharges by Water Quality staff. Attached are the 183 individual incident reports generated from the City's Maximo work order tracking database.

Work order number: Date Reported: Description:	603502 January 2, 2016 3:47 pm IDDE - Oil leaking fom drive	Status: Assigned to: way	COMP CVANHOOF		
REGULATORY: Best Mgmt Practices (I	ESA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?	
SPECIFICATIONS:					
Raining?		Y	Yes		
Precipitation in previ	ous 24 hours				
Frequency		l:	Intermittent		
Constituted a threat	to human healt or the environme	nt?	lo		
Immediate response	?	Y	'es		
Is the structure mapp	ped/inventoried?	Υ	'es		
Investigated within 7	days?	Υ	'es		
If suspected illicit con	nnection, investigated within 21 c	lays?	lot applicable		
Final resolution of illicit connection within six months?			Not applicable		
How did you learn about the problem?			Other public report		
Source tracing method			Visual recon		
Indicator testing		\	isual indicators		
Pollutants identified		V	ehicle fluids		
Source or cause		V	/ehicle		
Correction and elimination methods			Add or improve source control BMP		

WORK LOG / NOTES:

Log date: **04-Jan-2016 2:08 pm**

Logged by: CVANHOOF

Description: Investigation

Stopped by the address this morning and found some sheen coming off the driveway and flowing down to city catch basi I will contact the property owner and let them know they need to take some action (leak pan or pad) or repair the vehicles so there isn't aren't any leaks.

2/27/2017 Page 1 of 23

Work order number: Date Reported: Description:	604034 January 7, 2016 9:22 am IDDE soapy looking water	Status: Assigned to: behind Coast I		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	human healt or the environmen	nt? Y	es	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21 d	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	S	taff referral	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		S	oap / detergent	
Source or cause		C	Commercial - Restaurant	
Correction and elimin	ation methods	В	Sehavior modification	

WORK LOG / NOTES:

Log date: 07-Jan-2016 10:19 am

Logged by: CVANHOOF

Description: Investigation & Response

Responded to the service request and found a small amount of soapy water on the pavement and in the private catch basin. A new kitchen employee dumped a mop bucket outside instead of in the mop sink located in the kitchen. I gave the Eastside Bar & Grill an IDDE Field Form, Educational Flyer and Educational Poster to hang in the kitchen. I also talked with the hotel maintenance guy and we was going to clean it up and talk with the kitchen manager again too The discharge was maybe 2 gallons and there was no evidence in the downstream private catch basin. Photo's are attached to the work order.

2/27/2017 Page 2 of 23

Work order number: Date Reported: Description:	604041 Statu January 7, 2016 11:08 am Assig SLB 2016 Leak at meter 3427 1619	ned to: RGIBERSON	
REGULATORY: Best Mgmt Practices (E	ESA): BMP-14	HPA Required? DOE Called? X Illicit Discharge? NPDES?	
SPECIFICATIONS:			
Raining?		Yes	_
Precipitation in previo	ous 24 hours		
Frequency		One-time spill	
Constituted a threat t	o human healt or the environment?	No	
Immediate response	?	Yes	
Is the structure mapp	ed/inventoried?	Yes	
Investigated within 7	days?	Not applicable	_
If suspected illicit con	nection, investigated within 21 days?	Not applicable	_
Final resolution of illic	cit connection within six months?	Not applicable	_

Other public report

Chloride and fluroride

Mitigated by City of Bellevue

Visual recon

Sediment / spoil
Public entity

WORK LOG / NOTES:

Indicator testing
Pollutants identified

Source or cause

Source tracing method

Log date: **08-Jan-2016 3:09 pm**

Logged by: RGIBERSON

Correction and elimination methods

How did you learn about the problem?

Description: Crew investigated 1/7/16-Repaired 1/8

Water coming out near meter at a couple gpm. Excavated with vactor at an found small split in 1" poly line. Crimped line and installed 1" PEP PJC and 2 stiffeners Flushed service. Water was off for 15 minutes during repair. Contacted proper manager informing her of shutdown. Backfilled with .5 yard crushed rock. Flushed from hose bib following repair. Meter #72572320 Read 344. Rick 337

2/27/2017 Page 3 of 23

WAUDIT 607474 Work order number: Status: January 13, 2016 7:55 am Assigned to: Date Reported: IDDE Fire at 15232 NE 3rd Pl. Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon **Flow** Indicator testing Pollutants identified Other (see notes) Residential Source or cause Correction and elimination methods Add or improve source control BMP

WORK LOG / NOTES:

Log date: 13-Jan-2016 8:02 am

Logged by: BMILLER

Description: Reponded to standby call out fire at 2:30Am

Showed up on site and checked CBs and drainage area for foam pollution. will check area after it gets light.

2/27/2017 Page 4 of 23

Work order number: Date Reported: Description:	613521 January 15, 2016 10:38 am IDDE - Oil spill reported	Status: Assigned to:	COMP CVANHOOF	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmen	nt? Y	'es	
Immediate response?)	Y	'es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 d	ays?	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	P	Pollution hotline	
Source tracing metho	d	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		V	ehicle fluids	
Source or cause		S	Source not identified	

WORK LOG / NOTES:

Log date: 15-Jan-2016 2:07 pm

Logged by: CVANHOOF

Description: Investigation

Correction and elimination methods

Republic Services called a oil sheen on 108th Ave SE from Bellevue Way to NE 11th. The northbound lane had a straigl line of sheen from an unknown vehicle.

Mitigated by City of Bellevue

I installed oil booms inside MS4 catch basins #330329, 427777 and 322067 and tied them to the grate. This will catch a oil that flows from 108th Ave in both directions.

Pictures are attached to the work order.

I will removed the booms on Tuesday.

Log date: 27-Jan-2016 7:43 am

Logged by: CVANHOOF

Description: Follow up

Removed absorbent booms from the basins.

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Work order number: 613743 Status: REVIEW

Date Reported: January 18, 2016 12:53 pm Assigned to: RGIBERSON

Description: SLB 2016 Provisional Text at 12:33pm - 97th PL and SE 7th Patch 17x6

REGULATORY:
HPA Required?
X DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 18-Jan-2016 12:57 pm

Logged by: DBENSON

Description: Water coming up from previous patch

1/16/2016 - Water is pouring out of patch that work was done on the night before. Tested for fluoride. Tested positive. Vereplaced the saddles the night before so it must be a service leaking again. Work will be scheduled to replace services sold did not take action as far as calling in a crew. Coned off patch so traffic would not drive over it. Comments 320

Log date: 18-Jan-2016 1:27 pm

Logged by: DBENSON

Description:

1/18/2016 - Checked condition of leak and patch area. Everything appears fine, but needs to be addressed soon.

Comments 320

Log date: 21-Jan-2016 7:48 am

Logged by: RGIBERSON

Description: 1/19/16 Found leaking provisional service

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Came out to replace lines after replacing saddles 1/15/16. Water flowing out of patch had increased from 1-2gpm to abc 5gpm, which we figured was coming from leaking service line. Jackhammered trenchline and opened up road over saddl Excavated down and shut off corp, water continued to flow into hole from uphill. At this point we realized there was likely leak from uphill. Listened to services and along main to find spot to dig and opened a 3x4 hole. Main was intact at that spot so we listened again and opened another hole a few feet downhill. At this point we notified customers and shut dow the main as water had increased to 20-30gpm (also installed sock in catch basin). Found provisional service with stainles steel saddle, 1" poly service was leaking. Unthreaded corp and installed 1" cc plug. Main off from 2-2:15pm with services off from 1:30-3pm. Flushed main from BO

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Work order number: Date Reported: Description:	614006 January 19, 2016 12:10 pm IDDE -Water service break &	Status: Assigned to: turbid water i		HOOF	
REGULATORY:				HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):			X Illicit Discharge?	NPDES?
SPECIFICATIONS:					
Raining?		`	Yes		
Precipitation in previous	us 24 hours				
Frequency		(One-tim	e spill	
Constituted a threat to	human healt or the environmen	t? \	Yes		
Immediate response?		`	Yes		
Is the structure mappe	ed/inventoried?	1	Yes		
Investigated within 7 c	days?	١	Yes		
If suspected illicit conr	nection, investigated within 21 da	ays?	Not app	licable	
Final resolution of illici	it connection within six months?	N	Not app	licable	
How did you learn abo	out the problem?	F	Pollutio	n hotline	
Source tracing method	d	1	/isual re	econ	
Indicator testing		7	Turbidit _y	у	
Pollutants identified		5	Sedimer	nt / spoil	
Source or cause		F	Public e	ntity	

WORK LOG / NOTES:

Log date: 19-Jan-2016 3:21 pm

Logged by: CVANHOOF

Correction and elimination methods

Description: Investigation & Response

Responded to the call of turbid water into Meydenbauer Bay from the homeowner. Investigated the flow and found we has a water main break at 616 97th Place SE. Our crews were just starting to jack hammer the pavement to find the leak. I called in ERTS 662297 because the discharge made it into Lake Washington.

Mitigated by City of Bellevue

Jenelle will follow up with a volume when the repair is completed.

Log date: 20-Jan-2016 6:11 am

Logged by: CVANHOOF

Description: Update

Water crew got the break exposed and it ended up being a service line break and not a main break. Volume numbers ar still yet to come.

Log date: 21-Jan-2016 3:03 pm

Logged by: CVANHOOF

Description: Volume

Volume of turbid discharge from the service break was 4,000 gallons. DOE was updated with the information.

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614993 **CLOSE** Work order number: Status: **GKNIGHT** Date Reported: January 26, 2016 6:40 am Assigned to: SLB 2016 2" WATER SEEPING UP @CURB (P) Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 19-Feb-2016 2:59 pm Log date: **RGIBERSON** Logged by: Hung notices in common areas of buildings Description: For shutdown and road closure 2/24. Rick 337 Log date: 19-Feb-2016 12:24 pm Logged by: **GKNIGHT**

replacement)

Restoration

Logged by: RGIBERSON

Description:

Log date:

Description: 2/22 Tags out, no parking signs 2/23 Loaded for job

23-Feb-2016 3:19 pm

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Restoration work completed. Inspected 12/16/16. Invoice 83372 & 83458 - Grind & Overlay on hold - (AC main

Log date: 25-Feb-2016 8:21 am

Logged by: RGIBERSON

Description: Replaced 2" service line

Road shut down at 8:30am and opened up over water main. Excavated and installed trench box, T.O.M. 8.5'. Shut down water main at 10:30am and replaced saddle. Installed 2"x 3' stand pipe and curb stop, pressure checked and backfilled to curb stop while removing box. Installed new 2" setter w/ bypass and excavated a trench with the vactor. Installed new 2" copper with 1 2" PJC. Backfilled trench and installed new meter box. Removed some galvy on customer side to install ne setter, customers 2" copper is in poor shape and we were unable to eliminate all the galvy on the customer side. Water main back on at 1:30pm for most buildings with 416 and 420 buildings restored at 4pm. Flushed main and service for a total of 4500 gallons, CL residual 1.1. Installed new meter. Old read 1579. New meter #77223913 Read 0 C/O slip turned in. Rick 337

Log date: 26-Jan-2016 10:08 am

Logged by: JHARRISON

Description: CUST CALLED BACK SAID GETTING WORSE AND SAND

STARTING TO SHOW UP, INFORMED HIM CREW WILL BE BY SOON

Log date: **26-Jan-2016 10:14 am**

Logged by: JHARRISON

Description: 614528 JAN 22ND (RG) TESTED NEG

Log date: 26-Jan-2016 2:12 pm

Logged by: BTHOMPSON

Description: SL Repair 2016

Water is coming up between the curb and sidewalk at about 10GPM. Pulled manhole cover to 2" meter. Completely full c water. We pumped it out and listened to the meter and it was very loud. Could not hear much noise out in the road, main towards the curb area. 2" copper SL our side, Iron pipe customer side. Traced out SL, follows crack in road. Marked out and requested locates @ 2:22 Tuesday, January 26th. Lori is the contact for the apartments 206-719-0137 or 425-462-9999 326

Meter#:M048197 Read: 1367

Log date: 27-Jan-2016 11:29 am

Logged by: RGIBERSON

Description: Hung tags for shutdown Thursday 1/28/16 830-3

Shutdown turns off several complexes. Hung tags at several buildings and left message with manager of Brittany House. Turned in parts list with Shawn.

Log date: 01-Feb-2016 7:10 am

Logged by: RGIBERSON

Description: 1/28/16 Excavated for repair

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Water surfacing at curb line about 15gpm. Opened up 4x4 hole in asphalt above where the line ran. Material was all crushed rock, and area was completely saturated from leak and recent heavy rains. About 4' down we found geofoam blocks that hold the road up. Vactor filled up quickly and needed to be emptied, began pumping down curb line (with soc installed in catch basin). We were trying to see leak before shutting down water main as the shutdown affected several large complexes. Tried again to get down to leak but the crushed rock was sloughing in causing undermining in area. Go down to 6' and still had not seen leaking pipe. Opened up hole in parking lot closer to setter and excavated down, found leaking private storm line and at 6' down, the copper service line. At this spot it looked to be in ok condition. Spoke with Don from Water Quality on site about handling our pumped water and he gave us direction on what he wanted. Had excavator delivered and pulled curb and sidewalk panel to give us more room and because they were undermined. We made one more attempt to see service leak but water and sloughing made it impossible. As it was about 5pm and I did n want to shut the main down at that point I decided to backfill with crushed and coned off area letting it leak for the night. I spoke with the manager at the apartments and told her to inform the tenants the water would be off tomorrow all day. I made no other arrangements with the other buildings. Rick 337

Log date: 01-Feb-2016 7:38 am

Logged by: RGIBERSON

Description: 1/29/16 Repaired 2" service

Arrived on site after call for water over road, catch basins under vehicles had clogged with leaves and debris sending wa across road. Water had increased from previous evening to ~80gpm. Began setting up traffic control and shut off service at about 8:30. Water main would not shut down at this point and it was decided we needed to go after the corp to turn off the water, which was in the middle of the road. Had streets set up a detour and shut the road down at about 10am, and opened up street over presumed location of saddle. Excavated down, through 3 layers of old road and found saddle with top of the main at 9'. About this time we got the main shut down (valve not shown on map) and since we had copper instead of the presumed galvy, I decided to try and repair the leak. Moved back over to original hole and dug down founc the service at 8' with a 2" hole in the bottom. Installed trench box, had to remove geo foam to make room to work. Cut out section of pipe and while manipulating old pipe had another section break off. Installed curb stop and 4' of new copper Turned main back on and had another small leak 1' away. Installed repair clamp and stopped leak. Backfilled with crusher rock both the main and the repair, knifed rock in under main and corp as best as we could. Flushed water main for 40 minutes at 50gpm, CL residual .96. All services restored by 5pm and road was reopened at 7pm. Total water usage 115,000 gallons. Rick 337

Log date: 01-Feb-2016 3:13 pm

Logged by: CBAILEY
Description: 2-1-16 Clean up

2-1-16 325 & 328 swept & shoveled up 22 5gal buckets of sediment washed out from service break.

Log date: 01-Mar-2016 2:49 pm

Logged by: RGIBERSON

Description: 2/25 Picked up shore box

Hit patch with whacker again as it did not look very good. Shore box dropped at EGY. Rick 337

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Investigated within 7 days?

Source tracing method

APPR 615524 Work order number: Status: Assigned to: JSIZEMORE Date Reported: January 28, 2016 7:13 am SWQ - Oil Spill @ 112th Ave SE & SE 8th ST Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried?

Yes

Not applicable

Not applicable
Pollution hotline

Visual recon
Visual indicators

Vehicle fluids

Mitigated by City of Bellevue

Vehicle

WORK LOG / NOTES:

Indicator testing

Source or cause

Pollutants identified

Log date: 28-Jan-2016 9:39 am

If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months?

Logged by: JSIZEMORE
Description: Check Site

Correction and elimination methods

How did you learn about the problem?

Checked site. There is no sheen coming out of the outfall into the Slough. However, the water is quite turbid. I checked with Tom the right of way inspector. They're working on a solution.

Log date: 28-Jan-2016 7:27 am

Logged by: JSIZEMORE
Description: Meet on Site

Talked with Contractor. Vactor truck was dripping oil while running. Streets laid out absorbent pads around catch basing with sand bags on top. Could not see oil upon arrival. Streets indicated it was a small amount as well as the contractor.

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CLOSE 615921 Work order number: Status: Assigned to: **GKNIGHT** Date Reported: January 29, 2016 2:53 pm SLB 2016 (P 7X15 + 8x9) Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods

WORK LOG / NOTES:

Log date: 03-Feb-2016 3:06 pm

Logged by: RGIBERSON

Description: Checked locates, listened along service

Leak can be heard in several spots along line, indicating there could be several pinhole leaks along line. At this point we' decided to replace existing line from saddle to meter side of road but will not install 2 lines as it is on a 6" AC main and is due to be replaced in the somewhat near future. Rick 337

Log date: 05-Feb-2016 3:15 pm

Logged by: RGIBERSON

Description: Hung tags, previewed S/D

Log date: 11-Feb-2016 2:01 pm

Logged by: JHARRISON

Description: VACTOR ON W/O 617114 OK 305

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Log date: 10-Feb-2016 7:15 am

Logged by: RGIBERSON

Description: Replaced saddle, ran new service line across road

Water main off from 10am until 1:30pm. Set up traffic control and opened sidewalk where main ran 1st, excavated to wat main (T.O.M. 3') and found existing saddle with nut rotted off. Saddle began leaking as we dug so we shut the water mai down. Replaced saddle then moved traffic control and equipment to other side of the road. Opened road where previous repair had been made and cut a trench to the edge of the road. Asphalt was several layers thick. Dug a pit for the hog wi a trench to the edge of road. Shot hog toward main and ran new cooper line. Tied into existing line at edge of road with a curb stop. Flushed services and main for 60 minutes at 50gpm CL residual 1.15. M.O.R. filed.

Log date: 19-Feb-2016 10:07 am

Logged by: **GKNIGHT**Description: **Restoration**Restoration on work order 581518

Log date: 29-Jan-2016 3:53 pm

Logged by: JHARRISON

Description: Leak Nate marked for locates

Log date: **02-Feb-2016 9:13 am**

Logged by: RGIBERSON

Description: Locates submitted

14 home shut down. Will need flaggers for job. Rick 337

Log date: 10-Feb-2016 3:17 pm

Logged by: RGIBERSON

Description: Finished resto, cleaned trucks

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Work order number: 616254 Status: CLOSE

Date Reported: February 1, 2016 1:02 pm Assigned to: GKNIGHT

Description: SLB 2016 Water leaking up through pavement (P 6 x 7) Ticket #61025702

REGULATORY:		HPA Required?	DOE Called?
Best Mgmt Practices (ESA):	BMP-14	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 01-Feb-2016 3:33 pm

Logged by: RGIBERSON

Description: Leak on service line

Original address given was wrong, left message with customer. They called back and gave me correct address. Water coming up along curb line but it has been very rainy lately and lots of ground water is present in area. Listened to nearby services and heard a leak on the one for 14120 SE 61st PL. Marked for and submitted locates. Will return to investigate and pinpoint leak when I have more time. Meter #73151898 Read 253 Rick 337

Log date: 02-Feb-2016 12:48 pm

Logged by: JHARRISON

Description: Called for flaggers for 2/4 @ 8:00 per Ricks requests

Log date: **04-Feb-2016 3:20 pm**

Logged by: RGIBERSON

Description: Relaced saddle

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Flaggers onsite at 8am. Set up traffic control and took lane over water main. Opened road over location of saddles and excavated down with vactor. Found split in 1" poly just after direct tap corp. Performed scheduled shutdown at 9am, mair did not shutoff fully. Removed corp and installed new saddles and copper corps on this and adjacent service. Ran 2' of copper and hooked to existing poly service line with 1" PEPxCTS PJC. T.O.M. 4.5'. Bedded main and backfilled. Flushec water main for a total of 2.5hrs at 200gpm both directions (very dirty zone). CL residual 1.1 Services restored by 2:30pm. MOR filed and water loss filled out. Saddles located 75' North of WV140654. Meter #73151898 Read 254. Rick 337

Log date: **02-Feb-2016 2:32 pm**

Logged by: RGIBERSON

Description: Hung tags, previewed shutdown

Shutdown scheduled for Thursday 2/4 9-3. Tried to pinpoint leak but it is kind of loud in several spots along service. Spre deicer on area where water flows near sidewalk 3-5gpm. Put dechlor along curb as well. Main appears to be deep as nearby valve is on extension. Rick 337

Log date: **02-Feb-2016 3:27 pm**

Logged by: RGIBERSON

Description: Made TCP and parts list

Log date: 03-Feb-2016 3:03 pm

Logged by: RGIBERSON

Description: Checked locates, loaded for Thursday

Log date: 07-Dec-2016 8:17 am

Logged by: **GKNIGHT**Description: **Restoration**

Restoration work completed, Inspected 11/18/16, Invoice 82734

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CLOSE 616272 Work order number: Status: February 1, 2016 2:02 pm **SSTANLEY** Date Reported: Assigned to: **SLB 2016 Contractor break of service** Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Pollutants identified Sediment / spoil Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods

WORK LOG / NOTES:

Log date: 11-Feb-2016 1:20 pm

Logged by: SSTANLEY

Description: Responded to call on 2/1/16

Got on site and contractor had already crimped the 1" poly line. We cut in about 1' of 1" copper line and flushed the servi line. Locates looked to be good, hard to line them up with the holes that had already been dug. Contact on site Mitch Flerne 425-736-7856.

Log date: 01-Jun-2016 7:20 am

Logged by: SSTANLEY

Description: Should not bill poly

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	•			
Work order number: Date Reported: Description:	616761 February 4, 2016 8:35 pm IDDE - Diesel odor and she	3	IP NHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		Yes		
Precipitation in previo	ous 24 hours			
Frequency		One-tir	ne spill	
Constituted a threat to	o human healt or the environme	nt? Yes		
Immediate response?)	Yes		
Is the structure mapp	ed/inventoried?	Yes		
Investigated within 7	days?	Yes		
If suspected illicit con	nection, investigated within 21	lays? Not ap	plicable	
Final resolution of illic	cit connection within six months	Not ap	plicable	
How did you learn ab	out the problem?	Pollution	on hotline	
Source tracing metho	d	Visual	recon	
Indicator testing		Visual	indicators	

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 04-Feb-2016 8:40 pm

Logged by: CVANHOOF

Description: Investigation

Correction and elimination methods

Chad Brown received a call out for fuel odor and sheen at Bellefield Residential Park. I responded to the pond at 6:00 pl and didn't find much of a sheen in the dark, but there was diesel odor around the area.

Vehicle fluids

Source not identified

Add or improve source control BMP

Vicki Baggette (425) 260-9804 called in the odor and sheen. She said they smelled it around 1:00, they then ran some errands and they returned the smell was stronger and there was a sheen on the pond. Vicki emailed a picture from the day time that is saved to this work order.

I found a small sheen coming from the inlet pipe into the pond from 110th Ave. There wasn't a lot, but some and I install an absorbent boom across the inlet pipe to catch any residual.

I also went upstream and opened structures 330653, 330675 and 330674. These structures are channeled and there wasn't much evidence any diesel was inside these. There was still diesel odor in the area though.

I will follow up with Chad tomorrow for more investigation and removing the boom.

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Work order number: Date Reported: Description:	616891 February 5, 2016 2:32 pm Fuel spill from traffic accide	_	WAUDIT VSCHRODER orbent		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? DOE Called? Illicit Discharge? NPDES?		
SPECIFICATIONS:					
Raining?		ľ	No		
Precipitation in previo	us 24 hours				
Frequency		(One-time spill		
Constituted a threat to human healt or the environment?		nt?	No		
Immediate response?		`	Yes		
Is the structure mappe	ed/inventoried?	1	No		
Investigated within 7 of	days?	1	Not applicable		
If suspected illicit con	nection, investigated within 21 da	ays?	Not applicable		
Final resolution of illic	it connection within six months?	1	Not applicable		
How did you learn abo	out the problem?	5	Staff referral		
Source tracing metho	Source tracing method		Visual recon		
Indicator testing		\	Visual indicators		
Pollutants identified		\	Vehicle fluids		
Source or cause		1	Vehicle		
Correction and elimina	ation methods	ı	Mitigated by City of Bellevue		

WORK LOG / NOTES:

Log date: **08-Feb-2016 7:32 am**

Logged by: VSCHRODER

Description: 828,819 responded to the fuel spill

Placed 6 bags of floor dry on bel-red, eastbound on fluid spill. sweeper cleaned it up on Saturday.

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Work order nur Date Reported: Description:		ratus: WAUDIT ssigned to: JHARRISON WMB BFD on site HOLD
REGULATORY: Best Mgmt Practi	ices (ESA): BMP-14	HPA Required? DOE Called? X Illicit Discharge? NPDES?
SPECIFICATIONS	:	
Raining?		No
Precipitation in	previous 24 hours	
Frequency		One-time spill
Constituted a th	nreat to human healt or the environment?	No
Immediate resp	oonse?	Yes
Is the structure	mapped/inventoried?	Yes
Investigated wi	thin 7 days?	Not applicable
If suspected illie	cit connection, investigated within 21 days?	Not applicable
Final resolution	of illicit connection within six months?	Not applicable
How did you lea	arn about the problem?	Other public report
Source tracing method		Visual recon
Indicator testing	9	Chloride and fluroride
Pollutants ident	tified	Sediment / spoil
Source or caus	e	Public entity
Correction and	elimination methods	Mitigated by City of Bellevue
WORK LOG / NOT	ES:	
Log date:	18-May-2016 1:47 pm	
Logged by:	JHARRISON	
Description:	APPROX APRIL 20th	
Caution road si	igns taken out by Grant	
Log date:	11-Feb-2016 10:34 am	
Logged by:	RGIBERSON	
Description:	Pictures added	
Rick 337		

Log date: 09-Feb-2016 7:07 am

Logged by: BTHOMPSON

Description: Allen RD Open Noon 2-8-16

We went out Monday morning to clean up debris in driveways and asses the road. We decided we needed to break up a layer of asphalt in the east bound lane to see if it was hollow underneath. Didn't find any issues, broke up the sunken asphalt and patched. We drove the loaded 5 yarder over the area as well. There are two patches from the break, transportation came out and told us that it was going to be ground and overlayed in the next year.

PSE came out asking about the locates. Locate ticket is 16030303

BT 326

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Log date: 06-Feb-2016 5:32 pm

Logged by: BTHOMPSON

Description: Water main break

Started receiving texts at 9:35AM about dirty water, low pressure, and BFD on site. I got on site at about 9:55, closed the east in-line valve completely. I then throttled the west feed down to stop the water that had made its way to the home at 13821 SE Allen RD. Water did not get into the home and started to recede. 14 water services off @10:15. 6" AC blowout about 3 ft long, entire top of water main was gone. Media, BFD, and BPD were all on site, called Michael May and media left before he arrived. No homes damaged, cleanup will be needed Monday, as will assessment of Allen RD. Cut in 7' 5" DI using 2 Himax couplings. Filled with crushed to the top, no cold mix at EGY. Flushed for 30 minutes @100GPM both directions and through BO124609. 1.03 RES. All services back on by 4pm. Streets was on site setting up the closure around the break.

PSE came out to repair tracer wire that broke during the break. They had a 3/4 gas line running across the main where tl pipe blew out.

326 BT

Log date: 08-Feb-2016 6:52 am

Logged by: JHARRISON

Description: Called B.School District left voice mail of detour for Nancy

Log date: 31-May-2016 11:39 am

Logged by: JHARRISON

Description: PATCH TO BE DONE BY CIP

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Work order number: Date Reported: Description:	618195 February 12, 2016 8:19 am IDDE - Sawcutting discharge	Status: Assigned to: to storm during		
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		Y	'es	
Precipitation in previo	ous 24 hours			
Frequency				
Constituted a threat to	o human healt or the environmer	nt? Y	'es	
Immediate response?	?	Y	'es	
Is the structure mapp	ed/inventoried?	Υ	'es	
Investigated within 7	days?	Υ	'es	
If suspected illicit con	nection, investigated within 21 da	ays?	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	E	RTS	
Source tracing metho	od	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		S	Sediment / spoil	
Source or cause		C	Commercial - Mobile business	S
Correction and elimin	ation methods	N	litigated by responsible part	V

WORK LOG / NOTES:

Log date: 12-Feb-2016 8:23 am

Logged by: CVANHOOF

Description: Response

Received ERTS #622837 from DOE regarding self reporting from a saw cutting company that had saw cutting slurry enterstorm drain during a heavy rain event.

I checked Yarrow Creek along with the affected catch basin and everything looked alright. Picture of the catch basin and BMP's on Northup Way are attached to the work order.

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Description:

Work order number: Date Reported: Description:	618269 February 12, 2016 1:01 pm IDDE - Big pool of very yuck	Status: Assigned to: y, slimy water		
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? DOE Called? X Illicit Discharge? NPDES?	
SPECIFICATIONS:				
Raining?		•	Yes	
Precipitation in previo	ous 24 hours			
Frequency			One-time spill	
Constituted a threat to	o human healt or the environmer	nt?	Yes	
Immediate response?)	•	Yes	
Is the structure mapp	ed/inventoried?	•	Yes	
Investigated within 7	days?	•	Yes	
If suspected illicit con	nection, investigated within 21 da	ays?	Not applicable	
Final resolution of illic	cit connection within six months?	I	Not applicable	
How did you learn ab	out the problem?	i	Pollution hotline	
Source tracing metho	od	•	Visual recon	
Indicator testing		,	Visual indicators	
Pollutants identified		I	Food waste / oil	
Source or cause		(Commercial - Restaurant	
Correction and elimin	ation methods	I	Mitigated by responsible party	
WORK LOG / NOTES:				
Log date:				
Logged by:				

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Work order number: 618792 Status: REWORK

Date Reported: February 17, 2016 10:50 am Assigned to: RGIBERSON

Description: Water Leak EL #16040280

REGULATORY:	HPA Required?	DOE Called?
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 17-Feb-2016 3:11 pm

Logged by: RGIBERSON

Description: Leak on city side service line

Marked for locates and hung tags for Thursday 2/17. Spoke with customer who reported. Leak appears to be less than 1gpm. 305 called in short notice locates for 8am tomorrow. Rick 337

Log date: 18-Feb-2016 2:38 pm

Logged by: RGIBERSON

Description: Cut in 4' of 1" copper

Shut homes off at 9am and attempted to shut down water main. Worked valve while flowing 200-300gpm out of hydrant a well as with hydrant off. We were unable to get flow below about 100gpm even after messing with it for more than an hot Found split about 4' away from setter just before previous repair. Repair was done in landscaped area, we did not cut the road. Crimped line and installed 4' of copper with a new 3/4" setter and MIPxPJC 90. Hooked to existing line with 1" PEPxCTS PJC. Flushed out of service and out of hose bib on residence. Spoke with homeowner about repair. Meter #71054484 Read 1033

Log date: 19-Feb-2016 2:46 pm

Logged by: RGIBERSON
Description: Finished resto

Cleaned truck. Rick 337

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Work order number: Date Reported: Description:	618926 February 18, 2016 7:38 am IDDE - KCMT coolant spill	Status: Assigned to:	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge	=
SPECIFICATIONS:				
Raining?			No	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmen	it?	No	
Immediate response?		Y	Yes	
Is the structure mappe	ed/inventoried?	Y	Yes	
Investigated within 7 of	days?	Υ	Yes	
If suspected illicit con	nection, investigated within 21 da	ays?	Not applicable	
Final resolution of illic	it connection within six months?		Not applicable	
How did you learn abo	out the problem?	F	Pollution hotline	
Source tracing metho	d		Visual recon	
Indicator testing		V	Visual indicators	
Pollutants identified		V	Vehicle fluids	
Source or cause			Vehicle	

WORK LOG / NOTES:

Log date: 18-Feb-2016 9:46 am

Logged by: CVANHOOF

Correction and elimination methods

Description: Response & Investigation

Metro called in a antifreeze spill from one of their buses on NE 8th just west of 140th. I checked the system and Kelsey Creek where the MS4 discharges and only found evidence in one manhole (320750). The water level inside that manho was just at the invert so all the discharge was contained to that one structure.

Mitigated by responsible party

Metro dispatched their vactor out to the site and they cleaned the one structure.

ERTS 662997 was created and attached to the work order.

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Work order number: Date Reported: Description:	619335 February 22, 2016 6:27 am SLB 2016 Text at 5:05pm - W	Status: Assigned to: ater bubbling		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmen	t? N	lo	
Immediate response?		N	lo	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?			
If suspected illicit con	nection, investigated within 21 da	ays?		
Final resolution of illic	it connection within six months?			
How did you learn abo	out the problem?	C	Other public report	
Source tracing method	d	V	isual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		N	lone found	
Source or cause		F	Public entity	
Correction and elimina	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 26-Feb-2016 2:30 pm

Logged by: DBENSON
Description: 2/21/2016

2/21/2016 - Dug down and tried to keep up with the flow to see where the leak was. There is a resetter. Feels like leak i close to vertical fitting on setter. Could not get my eyes on it directly. Coned off area and marked for locates. Appears t be poly service. Comments 320

Log date: 26-Feb-2016 2:32 pm

Logged by: DBENSON

Description:

2/21/2016- Drove by the morning of repair to observe the conditions. Comments 320

Log date: **22-Feb-2016 2:04 pm**

Logged by: SSTANLEY

Description: Repaired on 2/22/16

Hand dug service to avoid flagging the road. Found a nipple that was leaking at curb stop. Shut down curb stop and finished digging. Had to freeze line, because of broken nipple and cut in about 1' of 1" copper (copper not on inventory). Installed new box and lid and backfilled with native soil. Flushed service line and flushed hose bib, leak checked. Meter# 69610693

Read 249

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Work order number: Date Reported: Description:	620093 February 26, 2016 6:48 am SLL 2016 TXT@5:07PM 2-25	Status: Assigned to: -16 (P 22x8+		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	human healt or the environmer	it? N	lo	
Immediate response?		Y	'es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?	N	lot applicable	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	0	Other public report	
Source tracing metho	d	V	isual recon	
Indicator testing		С	Chloride and fluroride	
Pollutants identified		N	lone found	
Source or cause		P	Public entity	
Correction and elimina	ation methods	M	litigated by City of Bellevue	e

WORK LOG / NOTES:

Log date: 26-Feb-2016 11:59 am

Logged by: BTHOMPSON
Description: TXT at 5:07

Text reporting water flowing at 14910 SE 64th. I called and contacted customer, said it was not at his home and the address he gave me was 13911 SE 64th. I went out to this address and there was a little water coming out of one of our patches. Turns out I had a miscommunication with Myung Joon Kim and the actual leak was at 14910 SE64th ST. I did n receive the text at 4:54pm reporting water coming up from pavement/damaging. Rick went out today to look at the leak a is scheduling it for Monday 2-29-16

BT 326

Log date: 05-Apr-2016 8:24 am

Logged by: **GKNIGHT**Description: **Restoration**Restoration on work order 599412

Log date: 26-Feb-2016 3:18 pm

Logged by: RGIBERSON

Description: Checked condition of service

Small amount of water pooling near patch. May not be a leak as it is low spot on street. Will return and add cold mix next week and try and pinpoint leak if present. Rick 337

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Log date: 07-Mar-2016 3:24 pm

Logged by: RGIBERSON

Description: Hung tags, parts list

Checked for fluoride and determined a leak is present. Since we have already done a repair we will replace both poly services with 1" copper. Rick 337

Log date: 10-Mar-2016 7:55 am

Logged by: RGIBERSON

Description: Replaced service

Cut road and sidewalk, opened trench from main to setters. Ran 30' of new 1" copper from existing saddles (previously replaced) to new 3/4" setters. Flushed service line and reinstalled meter. Water off from 10:30-1 (shut off at corp). Meter #45597783 Read 200. Rick 337

Log date: 10-Mar-2016 3:20 pm

Logged by: RGIBERSON
Description: Resto'd site

And cleaned truck

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Work order number: Date Reported: Description:	620123 February 26, 20 SLB 2016	016 10:52 am (P 6x6+6x7)	Status: Assigned to: LOC#160	HOLD RGIBERSON 50669	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14			HPA Required? X Illicit Discharge?	DOE Called? NPDES?
edecicio Ationici					

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

29-Feb-2016 3:03 pm Log date:

RGIBERSON Logged by:

Description: Fixed leak replaced saddle

Water main shutdown from 9am-12:30pm. Excavated to leak found poly line bent sharply right next to power line. Cut an fish taped to find saddles. Opened road over saddles and replaced both (see WO for neighboring saddle replacement). Hooked to existing poly with 2' of copper. Spliced in 2' of copper to repair leak as well. Flushed main for 45 minutes at 50gpm, CL residual .46. Flushed out of both services as well. Meter #73557828 Read 519. Rick 337

26-Feb-2016 2:02 pm Log date:

RGIBERSON Logged by:

Description: Leak on poly service line 2gpm

Hung tags and spoke with customers. Left cones over 1' sunk asphalt.

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Work order number: Date Reported: Description:	620146 February 26, 2016 12:49 pm IDDE - Wash water from food			
REGULATORY: Best Mgmt Practices (E	:SA):		HPA Required? X Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	o human healt or the environmen	t? N	lo	
Immediate response?)	Y	'es	
Is the structure mapp	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	P	Collution hotline	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		S	Soap / detergent	
Source or cause		C	Commercial - Mobile business	,
Correction and elimin	ation methods	N	litigated by responsible party	

WORK LOG / NOTES:

Log date: 26-Feb-2016 12:52 pm

Logged by: CVANHOOF

Description: Response and Clean-up

Received service request for wash water discharging from the Panhandle BBQ food trailer at 626 106th Ave NE. Responded and found small amount of grey water discharging from the trailer and into the private catch basin. I got the owner (Charles) to come out and look at the discharge. They left the valve a little open for the holding tank from their wa sink and the water was leaking out. He closed the valve and the discharge stopped.

I talked with Will at Sterling Realty Organization (SRO) onsite since they are the property managers. He was going to have a Maintenance Engineer come out and vac the basin removing the water. Rain is coming this afternoon so cleaning before it gets through the system is beneficial. The discharge did not make into any other catch basins in the system. Pictures are attached to the work order.

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Work order number: Date Reported: Description:	620404 February 29, 2016 6:56 am CSP 2016 BELLEFIELD BP P	•	CLOSE BTHOMPSON R LINES TXT@ 5:41pm	WMB@ Bellefield
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required	=
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		O	ne-time spill	
Constituted a threat to	human healt or the environmen	t? N	lo	
Immediate response?		Y	'es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 da	ıys? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	C	Other public report	
Source tracing metho	d	V	isual recon	
Indicator testing		С	chloride and fluroride	
Pollutants identified		S	sediment / spoil	
Source or cause		C	Other (see notes)	
Correction and elimina	ation methods	N	litigated by responsible p	arty

WORK LOG / NOTES:

Log date: 01-Mar-2016 12:08 pm

Logged by: **GKNIGHT**

Description: Customer Contact

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The cost is \$7.77 per 1 ccf. \$2136.75 for the water loss and just under \$300 for the response and mitigation charges.

From: Kate Dean [mailto:kdean@pinnacle-commercial.com] Sent: Monday, February 29, 2016 4:19 PMTo: Knight, Greg < GKnight@bellevuewa.gov > Cc: Kate Dean < kdean@pinnacle-commercial.com > Subject: Re: BELLEFIELD - WATER LINE BREAK
Thank you, what is the price for the excess water loss?
Take care,
Kate DeanSent from my phone
On Feb 29, 2016, at 3:15 PM, "GKnight@bellevuewa.gov" < GKnight@bellevuewa.gov> wrote:
We are not showing any volume generated for the February 23rd repair so it must have been minimal and or shut off quickly.
The volume we show for the break on the 28th is 205,800 gallons or 275 ccf. (5 hours 43 minutes / 600 gpm)
Please let me know if I can be of any more assistance!
From: Kate Dean [mailto:kdean@pinnacle-commercial.com] Sent: Monday, February 29, 2016 12:07 PMTo: Knight, Greg < GKnight@bellevuewa.gov > Cc: Kate Dean < kdean@pinnacle-commercial.com > Subject: BELLEFIELD - WATER LINE BREAK
Hello Greg, thank you for taking my call regarding the 8 inch water line break at Bellefield Office Park. We had two separate leaks, please see below timeline:

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2.22.16 leak found in water line near 1687 114th Avenue SE Bellevue Repaired by 2.23.16. 2.28.16 6:00pm report of gushing water and road flooding, near same location above. Specifically, near the fire hydrant. Later that evening water was shut off. 2.29.16 currently pipe is being repaired. I'm interested in any information you have about the amount of water lost. Please feel free to contact me with any questions. Take care, Kate Dean Property Manager Pinnacle 1450 114th Avenue SE, Suite 205Bellevue, WA 98004 O: (425) 289-4900 D: (425) 289-4907 kdean@pinnacle-commercial.compinnacleliving.com Log date: 29-Feb-2016 7:02 am Logged by: **BTHOMPSON** Description: Main Break Bellefield

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Triple A guy called in a break at bellefield business park at 5:41pm. Both contact numbers for Bellefield are no longer working numbers. I went out to see what was going on, looked like the run to one of their fire hydrants at 1687 had broke off or the main broke in that area. Could not locate a f/v. Water was flowing at about 5-600gpm if I had to estimate. It was all under water, bonnet of hydrant was barely above water. Contacted WQ to notify them the water was going right into the mercer slough. The only person I could find was a security guard, had him contact the maintenance guy and I started looking for a valve. I throttled a inline valve down towards SE 8th and at that time the maintenance guy had shown up an isolated the break. I exchanged contact information with him, he didn't seem to want to cooperate. I told him to let me know when they fixed it and were going to fill the main back up. Have not heard anything back. Jim 206-735-8307

BT 326

Log date: 29-Feb-2016 9:34 am

Logged by: MCPAN

Description: Chlorine residuals

On 2/29/16, MPan collected chlorine residuals at two hydrants on SE 8th St. 11711 SE 8th St, @0830, 1.08 mg/L. 11201 SE 8th St, @ 0845, 1.05 mg/L.

Log date: 29-Feb-2016 9:08 am

Logged by: RHUMPHRIES

Description: Water loss approx 205,800 gallons.....

....Checked SCADA on 2/29 - at 1:07 p.m. on 2/28/16 the 400 zone pressure at Meydenbauer dropped and stayed low until 6:50p.m. at the same time, BelRed inlet flow went up by approx. 600gpm. 600gpm x 5hr and 43 mins = 205,800 gallons.

Log date: 29-Feb-2016 3:11 pm

Logged by: **GKNIGHT**

Description: Customer Contact

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kdean@pinnacle-commercial.compinnacleliving.com

We are not showing any volume generated for the February 23rd repair so it must have been minimal and/or shut off quickly. The volume we show for the break on the 28th is 205,800 gallons or 275 ccf. (5 hours 43 minutes / 600 gpm) From: Kate Dean [mailto:kdean@pinnacle-commercial.com] Sent: Monday, February 29, 2016 12:07 PMTo: Knight, Greg <GKnight@bellevuewa.gov>Cc:Kate Dean <kdean@pinnacle-commercial.com>Subject: BELLEFIELD - WATER LINE BREAK Hello Greg, thank you for taking my call regarding the 8 inch water line break at Bellefield Office Park. We had two separate leaks, please see below timeline: 2.22.16 leak found in water line near 1687 114th Avenue SE Bellevue Repaired by 2.23.16. 2.28.16 6:00pm report of gushing water and road flooding, near same location above. Specifically, near the fire hydrant. Later that evening water was shut off. 2.29.16 currently pipe is being repaired. I'm interested in any information you have about the amount of water lost. Please feel free to contact me with any questions. Take care, Kate Dean Property Manager Pinnacle 1450 114th Avenue SE, Suite 205Bellevue, WA 98004 O: (425) 289-4900 D: (425) 289-4907

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Exceeding Your Expectations

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Work order number: 620413 Status: CLOSE

Date Reported: February 29, 2016 8:11 am Assigned to: RGIBERSON

Description: SLB 2016 Leak

REGULATORY:	HPA Required? DOE Called?	
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge? NPDES?	

SPECIFICATIONS:

Raining?	Yes
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 01-Mar-2016 11:15 am

Logged by: MHOEL

Description: 2/29/16 We went out and dug down and found that the

service line was leaking on our side with a crack in the blue brut right next to the fitting, we marked it out for locates and called it in to Kelly, Ticket Number # 16052244

I called Rick let him know about what was going on and he would be doing it on Tuesday. We hung tags to 5 houses.

Log date: 01-Mar-2016 1:36 pm

Logged by: RGIBERSON

Description: Replaced leaking blue brute with 3' of copper

Chased line and found a 1" curb stop that Tee'd to a dual service, the other being a provisional setter. 1" poly line crosse road with the saddle (guessed) approx. 42' north of FV for FH126911. Removed tee from curb stop and installed 1" MIPxPJC 90 and 4' of copper to new 3/4" setter and MIPxPJC. Flushed out of service and reinstalled meter. Backfilled w 1 yard of crushed and resto'd area, set new meter box. Water off from 8:30-11. Meter #68792564 Read 1459. Rick 337

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Work order number: 620456 Status: CLOSE

Date Reported: February 29, 2016 12:47 pm Assigned to: CBAILEY

Description: SLL 2016 Meter box full of water

REGULATORY:
HPA Required?
DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	Yes
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 01-Mar-2016 2:51 pm

Logged by: CBAILEY

Description: 3-1-16 meter nut leak .75 precision #8552003 rd2219

3-1-16 325 & 328 responded. Found the meter nut was damaged & leaking. The meter was a .75" Precision #8552003 rd2219. I made contact with the customer & informed them that we would be doing a setter replacement/repair on Wed 3-2-16 at 9am.

Log date: 02-Mar-2016 3:18 pm

Logged by: CBAILEY

Description: 3-2-16 service repair @ .75" Precision meter# 8552003 rd2219

3-2-16 337 & 325 service repair. Hand dug roughly 3' in front of meter box & 2' down. Exposed 1" copper service line witl dual service T splitting to 2- .75" service lines. We froze the damaged line & replaced the setter with a new 12" tall .75" setter, .75" mip by pjc, 1' copper, & a .75"x.75" pjc. We also installed a new 13"x24" meter box & lid.

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Precipitation in previous 24 hours

Immediate response?

620471 COMP Work order number: Status: Assigned to: CVANHOOF Date Reported: February 29, 2016 1:51 pm IDDE - Water main break to Mercer Slough in Bellefield Business Park Description: **REGULATORY: HPA Required?** X DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:**

Yes

No Raining?

Frequency One-time spill Yes Constituted a threat to human healt or the environment?

Yes Is the structure mapped/inventoried? Yes Investigated within 7 days?

If suspected illicit connection, investigated within 21 days? Not applicable Not applicable Final resolution of illicit connection within six months?

Staff referral How did you learn about the problem? Source tracing method Visual recon

Visual indicators Indicator testing None found Pollutants identified

Source or cause Other (see notes)

Mitigated by responsible party Correction and elimination methods

WORK LOG / NOTES:

29-Feb-2016 1:55 pm Log date:

CVANHOOF Logged by: Investigation Description:

Water main (8") break at Bellefield Business Park yesterday afternoon. Water Department was called even though the system is private. First calculations at 90 minutes of flow (500 gpm) was called in to DOE with a discharge of 45,000 gallons. Water then went back on the SCADA and figured out it had been flowing for 6 hours and a discharge volume of 200,000 gallons was updated with DOE.

There wasn't any noticeable impact to Mercer Slough with turbidity. The discharge did go through some private stormwa area's before any discharge would enter the slough.

The work order from Water Department is in "Related Records" and the ERTS (663216) is attached. Anne Dettlebach with DOE did contact me to get an update when she received the new volume.

01-Mar-2016 6:35 am Log date:

BMILLER Logged by:

Description: Stand by call by Water Dept Barry Thomson

I responded to call out and saw that it was throttled down in the morining and they where going to be doing the repair a private contractor. i called and Texted Michael Pan for him to do follow up on the Drinking water issue of type two water main break.

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Work order number: Date Reported: Description:	620630 March 1, 2016 10:33 am 625 call in about illicit disch	Status: Assigned to: arge	COMP CVANHOOF	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		Y	/es	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environme	nt?	Yes	
Immediate response?		Υ	res es	
Is the structure mappe	ed/inventoried?	Y	/es	
Investigated within 7 of	days?	Y	/es	
If suspected illicit con	nection, investigated within 21 o	days?	Not applicable	
Final resolution of illic	it connection within six months?	?	Not applicable	
How did you learn abo	out the problem?	F	Pollution hotline	
Source tracing metho	d	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		V	/ehicle fluids	
Source or cause		V	/ehicle	

WORK LOG / NOTES:

Log date: 10-Mar-2016 7:42 am

Logged by: **CVANHOOF**Description: **Investigation**

Correction and elimination methods

The call was at Les Schwab on Bel-Red Road because there is some groundwater flowing from a small yard drain behin the sidewalk. This site is not in our PDI database, so it hasn't been inspected for proper maintenance. A property profile was created and the system will now be inspected for proper operation and maintenance.

Mitigated by City of Bellevue

There was concern with the groundwater as an illicit discharge.

Log date: 10-Mar-2016 7:45 am

Logged by: CVANHOOF

Description: Investigation II

Wrong information in the prior comments. This was a call from a vehicle accident in the intersection of 156th and Northu Dustin Miller and Frank Oriel responded with absorbent booms and inserts. Floor dry was applied to the roadway with th sweeper removing the material.

Product was contained and removed.

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Work order number: Date Reported: Description:	621975 March 10, 2016 12:12 pm Sewer overflow from city lin	Status: WAUDIT Assigned to: CEMRY coming up onto private p	roperty	
REGULATORY: Best Mgmt Practices (E	SA):	=	HPA Required?	DOE Called?
SPECIFICATIONS:				
Raining?		No		
Precipitation in previo	us 24 hours	0		
Frequency		One-time spil	I	
Constituted a threat to	human healt or the environme	t? Yes		
Immediate response?		Yes		
Is the structure mappe	ed/inventoried?	No		
Investigated within 7 of	days?	Yes		
If suspected illicit con	nection, investigated within 21 c	ays? Not applicabl	е	
Final resolution of illic	it connection within six months?	Not applicabl	е	
How did you learn abo	out the problem?	Other public	report	
Source tracing metho	d	Visual recon		
Indicator testing		Visual indicat	tors	
Pollutants identified		Sewage / sep	tage	

WORK LOG / NOTES:

Source or cause

Log date: 10-Mar-2016 2:29 pm

Logged by: CEMRY

Correction and elimination methods

Description: Called homeowner and arrived onsite @ 12:45pm

Overflowing COTG is a private CO, two houses upstream of Yarrow Point pumpstation. Currently we have yarrow point pump stations WW bypassed for construction. So the first thing I did was go to the station and make sure the contractors (Accord Construction) bypass was working. The control MH looked about 1.5ft above the bench, but not abnormal. Then asked the contractor of his pumps were pumping? He stated that if its not rising in the control MH, then they are pumping Called the inspector Rich Ford and told him we have a problem, he said, "on my way".

Construction

Mitigated by responsible party

From there I walked over to the overflowing COTG @ 4215 91st Ave NE and it was still overflowing at a rate of about 5gpm. Talked with homeowner. He stated that his landscapers were there this morning mowing the grass and the CO was not overflowing at that time, but as soon as he noticed it he called the city. After getting the info from the homeowner I talked to Chris Vanhoof in Water Quality, to report the overflow into the lake. The next step was to call flush 1 and run the pump to see if water would boil up, but it did not make any difference.

I went back to talk to the contractor to make sure the pumps were pumping. He stated they were, so I asked him to ramp them up and he told me it would make no difference. I told him I wanted them ramped up...so he did. Went back to the cleanout and nothing. At that time I told the contractor that we may have to pull there bypass plugs in order to relieve the overflow, so he attempted to call his boss.

From there, I went back to the cleanout and started to call a jet truck when the overflow suddenly stopped. Right at the point Rich Ford the inspector called me and said he arrived at the station and their bypass pumps were running, but not pumping. So he got them running and told the contractor they needed to come off bypass today due to negligence. I handed all the info and pictures I took over to him, as well as the homeowners address of where the overflow occurred.

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Work order number: Date Reported: Description:	622035 March 10, 2016 1:24 pm IDDE - Sewer overflow from	Status: Assigned to: city line coming	COMP CVANHOOF g up onto private property	
REGULATORY:			HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		Y	es	
Precipitation in previo	ous 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	o human healt or the environmer	nt? Y	es	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Υ	es	
Investigated within 7	days?	Υ	es	
If suspected illicit con	nection, investigated within 21 d	ays? N	ot applicable	
Final resolution of illic	cit connection within six months?	N	ot applicable	
How did you learn ab	out the problem?	Р	ollution hotline	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		s	ewage / septage	
Source or cause		S	Anitary overflow	

WORK LOG / NOTES:

Log date: 10-Mar-2016 3:21 pm

Logged by: CVANHOOF
Description: Reporting

Correction and elimination methods

Sewer had an overflow at 4215 91st Ave NE in Yarrow Point. This clean is out is for the lake line and Accord Constructic doing work at COB pump station was overpumping the bypass. Over capacity came out of the lowest clean out at the property. Contractor stopped the pumping and overflow went away.

Mitigated by City of Bellevue

DOE was notified and ERTS 663537 was created. Volume was 5 gpm for 90 minutes (450 gallons) that entered the lake No sanitary product other than water entered the lake. ERTS is attached to the work order.

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APPR 622244 Work order number: Status: March 12, 2016 1:43 pm Assigned to: BWHITING Date Reported: IDDE - Fuel spill on BCC property Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days?

Not applicable

Pollution hotline

Visual recon
Visual indicators

Vehicle fluids

Mitigated by responsible party

Vehicle

Yes

WORK LOG / NOTES:

Indicator testing

Source or cause

Pollutants identified

Source tracing method

Log date: 14-Mar-2016 2:18 pm

If suspected illicit connection, investigated within 21 days?

Final resolution of illicit connection within six months?

Logged by: CVANHOOF

Description: Reporting

Correction and elimination methods

How did you learn about the problem?

Fuel spill over the weekend into private catch basins at BCC. They called in a spill to DOE and ERTS 663588 was creat and attached to this work order.

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622375 HOLD Work order number: Status: Date Reported: March 14, 2016 2:43 am Assigned to: WMB 2016 8" AC Locate# 16066661. HOLD Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable

Other field screening

Other (see notes)
Chloride and fluroride

Sediment / spoil

Other (see notes)
Other (see notes)

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Source tracing method

Log date: 14-Mar-2016 8:48 am

Logged by: SSTANLEY

Correction and elimination methods

How did you learn about the problem?

Description: Responded to call on 3/14/16

Called customer and he stated that he had seen water flowing down the street earlier in the day and he thought it was jurain water flowing. Got on site and found that there was more water flowing out of the road farther down the hill. Throttled the water main down and marked for locates. Called in crew and called in locates. Ticket number 16066661. Made conta with 5 customers and explained the situation, and that the water was going to be off for a few hours. When notifying customers I noticed that there was more water flowing up out of the ground then I had noticed on the first check. At hous 13417 Ne 32nd Ln. Looked like there was water that had flowed into his barn. Took pictures of the water line. There is approx. 120' to 130' fir tree sitting right on top of the 8" AC water main. A tree root is what caused the circumferential crack. Installed repair band on the main, O.D. of 9.60". Customers were off at 9:00pm and back on at 2:00am. When restoring water services there were two services that continued to spin, so they were left off. Address of 13403, 13417 N 32 Ln, left door tags on both addresses. There was a possible leak at 13403. Main was only turned on 4 turns and hydra was bagged out of service, and called in (FH126765).

Log date: 14-Mar-2016 1:05 pm

Logged by: SSTANLEY

Description: Met on site with Tom C. 3/14/16

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Met about making a permanent repair, and the tree issues. Made contact with neighbor about the possible water damage to 13417. He stated that they were able to clean up the little bit of water that had made it inside and that it did not look lik there was any damage. There was a water line and the door to the barn and some landscaping was moved down the hill and made a little bit of a trench that flowed to the front door of the barn. The water flowed around the barn to the side. We not able to see inside the barn to take pictures, as the homeowner did not want to deal with it when he got home. I think he got home after 10pm on that night. Homeowner did say something about it being his office and that there was some electronics in the barn.

Log date: 14-Mar-2016 1:01 pm

Logged by: JHARRISON
Description: Water flow

From:Humphries, Robert Sent: Monday, March 14, 2016 10:33 AMTo: Jackson, Dan <DJackson@bellevuewa.gov>; Harrison, Jenelle <JHarrison@bellevuewa.gov>; Stanley, Scott <SStanley@bellevuewa.gov>; Conway, Thomas <TConway@bellevuewa.gov>Subject: Main Break in 670 zone on Sunday 13th. Water loss.

SCADA shows flows at NE 670 Pump Station increased from 100gpm to 380gpm from 2:55p.m. to 8:41p.m. (346 minutes).

Then flows decreased to 200gpm from 8:41p.m. to 9:36p.m.(55 minutes) before returning to 100gpm.

Estimated water loss is 92,580 Gallons.

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WAUDIT 622745 Work order number: Status: March 15, 2016 9:59 am Assigned to: VSCHRODER Date Reported: **BPD** requests absorbent Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon Visual indicators Indicator testing Vehicle fluids Pollutants identified **Vehicle** Source or cause Mitigated by City of Bellevue Correction and elimination methods

WORK LOG / NOTES:

Log date: 15-Mar-2016 2:20 pm

Logged by: VSCHRODER

Description: 3/15/16 arrived on site and put down 3 bags of floor dry. I called 819

To come by in the sweeper and clean up the mess.

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622836 HOLD Work order number: Status: **SSTANLEY** Date Reported: March 15, 2016 12:38 pm Assigned to: SLB 2016 (p 30'x4') Leak in roadway Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Visual recon Source tracing method Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 15-Mar-2016 3:31 pm Log date: **RGIBERSON** Logged by: Shut off corp and jumpered house Description: 2 previous repairs on 1" poly service line, needs replacement. Hand dug down to corp in neighbors yard (10631) and shu off service line. Jumpered house from 10626 and informed customer of what was going on. Neighbor was not home so le

Log date: 16-Mar-2016 7:28 am

door tag explaining jumper situation. Marked for locates for service replacement. Rick 337

Logged by: RGIBERSON

Description: Locates submitted

For 8am start 3/17

Log date: 23-Mar-2016 7:45 am

Logged by: SSTANLEY

Description: Replaced line on 3/17/16

Replaced service line with 50' of 1" copper, and installed new saddle. Reused 3/4" setter. Replaced saddle live and didn' not preform shutdown. Flushed service line and flushed customer line.

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Log date: **05-Apr-2016 2:55 pm**

Logged by: **GKNIGHT**Description: **Restoration**

Asphalt restoration on work order 555860

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Work order number: Date Reported: Description:	622849 March 15, 2016 12:53 pm Spill - Garbage Truck Hydra	Status: Assigned to: ulic Leak	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required?	
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environme	nt? N	lo	
Immediate response?)	Y	′es	
Is the structure mapp	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	′es	
If suspected illicit con	nection, investigated within 21 d	lays? N	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	S	Staff referral	
Source tracing metho	d	V	/isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		V	/ehicle fluids	
Source or cause		V	/ehicle	
Correction and elimin	ation methods	N	litigated by responsible pa	ırty

WORK LOG / NOTES:

Log date: 15-Mar-2016 1:36 pm

Logged by: CVANHOOF
Description: Response

Republic Services truck had a parts malfunction and dropped hydraulic fluid onto the 36th. The driver had put down absorbent pads to contain fluid and I put down a bucket of absorbent to keep traffic from tracking it down the road. A mechanic and clean up crew on their way to the site.

No fluid made it to any catch basins and there was approximately a couple quarts that spilled.

Pictures and IDDE Field Form are attached to the work order.

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Work order number: Date Reported: Description:	622854 March 15, 2016 10:06 am Spill - BPD requests absorb	Status: Assigned to: ent	COMP CVANHOOF
REGULATORY: Best Mgmt Practices (E	:SA):		HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:			
Raining?		N	No
Precipitation in previo	ous 24 hours		
Frequency		(One-time spill
Constituted a threat to	o human healt or the environme	nt?	/es
Immediate response?)	``	/es
Is the structure mapp	ed/inventoried?	١	/es
Investigated within 7	days?	Y	/es
If suspected illicit con	nection, investigated within 21 c	lays?	Not applicable
Final resolution of illic	cit connection within six months?	P 1	Not applicable
How did you learn ab	out the problem?	5	Staff referral
Source tracing metho	od	\	/isual recon
Indicator testing		\	/isual indicators
Pollutants identified		\	/ehicle fluids
Source or cause		\	/ehicle
Correction and elimin	ation methods	N	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 15-Mar-2016 1:49 pm

Logged by: CVANHOOF
Description: Response

Bellevue PD called for absorbent on Cougar Mountain Drive due to a car accident. Responded and Street Department v on location putting down absorbent and they also had a sweeper on its way.

No oil or anitfreeze made it into any catch basins so there wasn't any contamination of structures.

Pictures are attached to work order.

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Work order number: 623436 Status: CLOSE

Date Reported: March 18, 2016 8:41 am
Description: SLB 2016 Leak at meter (P 18x18+5x6)

REGULATORY:	HPA Required?	DOE Called?
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 18-Mar-2016 11:10 am

Logged by: MHOEL

Description: 3/18/16 We went out and found water coming up from the patch

We listen and could hear the leak on 14145 service line. It is in the street near the patch in the road. We left a cone by th curb so that people can see that we were there, I called the customer that called it in and left her a message to call me back. I let Scott S know that there is a leak so that he could start working on get ready for repair.

Log date: 31-Mar-2016 7:48 am

Logged by: RGIBERSON

Description: Replaced saddle and service line

Opened road where we thought saddles would be. We were unable to fishtape because of broken valve on 140th Ave. Found saddles and messed with valve while flowing water in order to get flow to manageable level. Valve broke while do this but was not operating properly at that point anyway. Installed trench box and replaced all 3 saddles and ran new 1" copper lines from saddles to setters, abandoning the poly lines. Water restored to cul de sac at 1pm and the final 3 home were restored by 4pm. Flushed 100gpm for 100 minutes, CL residual 1.1. Ran lines to edge of curb and installed curb stops for all 3 lines. Bedded main and backfilled with crushed rock and cold mix. Secured site and equipment for the evening, scheduled to finish resto the following day.

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Log date: **24-Mar-2016 3:16 pm**

Logged by: RGIBERSON

Description: Water leaking at about 1/2 gpm attempted to S/D main

Log date: 28-Mar-2016 3:02 pm

Logged by: RGIBERSON

Description: Hung tags for Wednesday 3/30

Log date: 29-Mar-2016 1:44 pm

Logged by: JHARRISON

Description: SEE NOTES IN 623268

Log date: 01-Apr-2016 3:45 pm

Logged by: RGIBERSON

Description: Installed resetter and set boxes with topsoil

Topsoil purchased from pacific. Billed to original WO.

Log date: 07-Apr-2016 1:18 pm

Logged by: **GKNIGHT**Description: **Restoration**

Asphalt and concrete restoration on work order 574033

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Work order number: Date Reported: Description:	623817 March 22, 2016 6:05 am IDDE - Dairy product discha	Status: Assigned to: rged to private	COMP CVANHOOF storm
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? DOE Called? X Illicit Discharge? NPDES?
SPECIFICATIONS:			
Raining?		Y	es
Precipitation in previo	ous 24 hours		
Frequency		0	ne-time spill
Constituted a threat to	o human healt or the environme	nt? Y	es
Immediate response?)	Y	es
Is the structure mapp	ed/inventoried?	Υ	es
Investigated within 7	days?	Υ	es
If suspected illicit con	nection, investigated within 21 c	lays? N	ot applicable
Final resolution of illic	cit connection within six months?	N	ot applicable
How did you learn ab	out the problem?	С	atch basin or manhole inspection
Source tracing metho	d	V	isual recon
Indicator testing		V	isual indicators
Pollutants identified		F	ood waste / oil
Source or cause		С	ommercial - Retail
Correction and elimin	ation methods	M	itigated by responsible party

WORK LOG / NOTES:

22-Mar-2016 6:07 am Log date:

CVANHOOF Logged by: Description: Investigation

During a PDI yesterday an illicit discharge of a dairy product was found in the private storm system at Kelsey Creek Cent (Walmart) in the loading dock area. The product was found on the pavement and in three private basins. This system eventually discharges into Kelsey Creek that flows through the parking lot.

Cleaning of the basins and spill prevention material will given to the property manager for response.

An IDDE Field Form and pictures are attached to the work order.

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	•			
Work order number: Date Reported: Description:	624068 March 23, 2016 10:47 am SLB 2016 Box full of water,	Status: Assigned to: meter not turn		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?			No	
Precipitation in previo	ous 24 hours			
Frequency			One-time spill	
Constituted a threat to	o human healt or the environme	nt?	No	
Immediate response?)		Yes	
Is the structure mapp	ed/inventoried?		Yes	
Investigated within 7	days?		Yes	
If suspected illicit con	nection, investigated within 21 d	lays?	Not applicable	
Final resolution of illic	cit connection within six months?	•	Not applicable	
How did you learn ab	out the problem?		Staff referral	
Source tracing metho	d		Visual recon	
Indicator testing			Chloride and fluroride	
Pollutants identified			Sediment / spoil	
Source or cause			Public entity	
Correction and elimin	ation methods		Mitigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 25-Mar-2016 3:32 pm

Logged by: RGIBERSON

Description: Hung tags for S/D

Monday 3/28 8:30-3

Log date: 29-Mar-2016 10:50 am

Logged by: SSTANLEY

Description: Responded to call on 3/24716

Tired to verify what was leaking and was unable to keep up with the flow of water. Marked area for locates and planned t repair on 3/28.

Log date: 29-Mar-2016 10:52 am

Logged by: SSTANLEY

Description: Repaired on 3/28/16

Traced out service line and dug up where the 3/4" copper service line was at the street. Was able to dug up and find that there was a leak in the 3/4" copper by the setter. We crimped the line and froze the service. We extended the customer side by about 2' to get the service line and setter up away from the roots. We installed a curb stop at the edge of the roadway, so we could run new copper to the setter. No shut down was preformed. Installed new box and lid. Leak check and flushed to customers hose bib.

Meter# 73953987

Read 144

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Log date: **28-Mar-2016 7:12 am**

Logged by: JHARRISON

Description: 3/24 NO COMMENTS from crew 1.5

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Work order number: Date Reported: Description:	624184 March 24, 2016 6:07 am IDDE - white colored water i	Status: Assigned to: n city catch bas	COMP CVANHOOF sin	
REGULATORY: Best Mgmt Practices (E	:SA):		HPA Required? X Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	ous 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	o human healt or the environme	nt? Y	es	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21 d	lays? Y	es	
Final resolution of illic	cit connection within six months?	N	ot applicable	
How did you learn ab	out the problem?	S	taff referral	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		P	aint	
Source or cause		R	esidential	
Correction and elimin	ation methods	M	itigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 24-Mar-2016 6:09 am

Logged by: CVANHOOF

Description: Investigation

Bill and Travis (Storm Crew) called with white water in catch basin at this address. They were doing PM work and found the discharge in 2 catch basins. The basin is located in front of the driveway with only a downspout pipe coming into it. The material looks to be paint because the pH was neutral, there wasn't any odor and it wasn't in the sediment of the basin.

The crew cleaned both basins to remove the discharge and the homeowner will be contacted to educate them regarding surface water quality.

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Work order number: Date Reported: Description:	624443 March 25, 2016 10:16 am IDDE - Pressure washing tur	Status: Assigned to: rbid water into		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmen	nt?	lo	
Immediate response?		Y	'es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 d	lays?	lot applicable	
Final resolution of illic	it connection within six months?	·	lot applicable	
How did you learn abo	out the problem?	S	Staff referral	
Source tracing metho	d	V	/isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		S	Sediment / spoil	
Source or cause		C	Other (see notes)	
Correction and elimina	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 25-Mar-2016 11:51 am

Logged by: CVANHOOF

Description: Investigation & Repsonse

Streets called in someone pressure washing at 155 108th Ave NE with turbid discharge entering the storm system.. The maintenance man was pressure washing the steps and patio area which eventually was creating small discharge into catch basin 332048. I installed a catch basin insert in that structure to hopefully capture some of the sediment before it flows down system.. I also talked the maintenance person about using BMP's when pressure washing and I gave him a pressure washing pamphlet. Checked the downstream system at the high flow bypass and there wasn't any turbidity in that structure.

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	Work order number: Date Reported: Description:	624682 March 27, 2016 2:15 pm Norcom reporting large amou	Status: WAUDIT Assigned to: ASHEHAB Ints of oil and fuel in road from	n accident.	
	EGULATORY: Best Mgmt Practices (E		HPA	Required? Discharge?	X DOE Called? NPDES?
_ SI	PECIFICATIONS:				
	Raining?		Yes		
	Precipitation in previous	us 24 hours			
	Frequency		One-time spill		
	Constituted a threat to	human healt or the environmen	? Yes		
	Immediate response?		Yes		
	Is the structure mappe	ed/inventoried?	Yes		
	Investigated within 7 c	days?	Yes		
	If suspected illicit conr	nection, investigated within 21 da	ys? Not applicable		
	Final resolution of illici	it connection within six months?	Not applicable		
	How did you learn abo	out the problem?	Pollution hotline		
	Source tracing method	d	Visual recon		
	Indicator testing		Visual indicators		
	Pollutants identified		Vehicle fluids		

WORK LOG / NOTES:

Source or cause

Log date: 28-Mar-2016 3:01 pm

Logged by: ASHEHAB

Correction and elimination methods

Description: Recieved call from NORCOM about fuel & oil on road.

Accident caused large amounts of fuel & oil to get on roadway. Upon arrival found no BPD or BFD on scene. Both westbound lanes of Northup Way west of 130th had large amounts of visible sheen along with northbound turn lane on Northup. Installed filter bag along with boom and absorbent pads in CB 316827. Placed down 5 bags of spagsorb to abstuel & oil. Called in K. Nall to come in with street sweeper and pick up remaining product. Notified DOE. ERTS attached i Maximo to this WO.

Vehicle

Mitigated by City of Bellevue

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Work order number: Date Reported: Description:	624797 March 28, 2016 8:35 am IDDE - Turbid water into stre	Status: Assigned to: eet and catch be	COMP CVANHOOF asins	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Requ	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmen	nt? Y	′es	
Immediate response?		Y	′es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 d	lays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	P	Pollution hotline	
Source tracing metho	d	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		S	Sediment / spoil	
Source or cause		C	Construction	

WORK LOG / NOTES:

Log date: 28-Mar-2016 2:10 pm

Logged by: **CVANHOOF**Description: **Investigation**

Correction and elimination methods

Bayley Construction had a discharge of turbid water from their construction site onto 116th Ave NE. The discharge went down the street and entered the MS4 before discharging into a wetland area.

Mitigated by responsible party

The vegetation in the wetland held up the turbid water and filtered it before entering Sturtevant Creek (see attached pictures).

This is an active construction permit so Aaron Roden was notified along with DOE and ERTS 663936 was also created. Discharge happened after some core drilling released water (approx. 40,000 gallons) that was behind the concrete wall i the construction site causing turbid discharge.

The ERTS is attached to the work order.

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Work order number: 625476 Status: CLOSE

Date Reported: April 1, 2016 1:18 pm Assigned to: RGIBERSON

Description: SLB 2016 Leak Loc # 16091744

REGULATORY:
HPA Required?
DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	No
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 01-Apr-2016 3:33 pm

Logged by: RGIBERSON

Description: Service line leak near setter

Locates submitted. 326 checked on Friday afternoon, 4/1. Scheduled for Monday 4/4

Log date: **05-Apr-2016 8:06 am**

Logged by: RGIBERSON

Description: Replaced setter and section of copper

Leak coming from setter but copper was in poor shape. Followed lines outside of box and found 2" angle stop with a flangexFIP fitting, in poor shape. Knocked on doors and shut off angle stop and setters. Had a new flangexFIP brought o and reused existing 3 piece fitting. Replaced copper to all 3 setters (see WO's 625758 and 625759) and turned homes back on after flushing setters. Homes off from 9am-11am. Meter #8731354 Read 2625. Rick 337

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Work order number: 625479 Status: HOLD

Date Reported: April 1, 2016 1:27 pm Assigned to: RGIBERSON

Description: SLB Leak

REGULATORY:	HPA Required? DOE Called?	
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge? NPDES?	

SPECIFICATIONS:

ECIFICATIONS.	
Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 06-Apr-2016 3:16 pm

Logged by: RGIBERSON

Description: Marked and submitted locates

Leak on longside service line, attempted to expose line but roots were surrounding setter.

Log date: 06-Apr-2016 8:03 am

Logged by: PDILLS
Description: 04/01/16

Water coming from hillside on customer property. After talking to customers and neighbor, sounds like its been going on for about a year. No change in water bill and was told by customer and neighbor that the meter is not spinning. Looks like ground water. Passed it off to dig & repair crew to get out to do a fluoride test on the water to ensure it is ground water.

Log date: 12-Apr-2016 3:27 pm

Logged by: RGIBERSON

Description: Replaced service

Shut down water main at 9am. Cut service and fish taped to locate 2" PVC main and "saddle". Dug down to main and exposed corp, saddle and corp were in good shape. Tried removing but rubber sealed tee was moving on PVC main quit bit. Decided to remove flare by 1" poly fitting. 317 ran us out a flare by 1" copper fitting and we added it to the existing corp. Pulled new service line across street and installed 1" curb stop at edge of road. Rerouted new 1" copper a little further from cedar tree and moved meter about 4' away from where it originally sat. Added a few feet of copper and hook to customers existing poly line. Flushed main from last service on street for 30 minutes at 25gpm, CL residual was 1.34.

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Log date: 13-Apr-2016 3:29 pm

Logged by: RGIBERSON
Description: Finished resto

Log date: 11-Apr-2016 7:15 am

Logged by: RGIBERSON

Description: 4/8 Brought Vactor out after other scheduled job

Plan was to fix leak as it appeared to be leaking at edge of road. Dug down and exposed service line at edge of road. Service line is deep and leak is actually coming from under road. New line needs to be ran. Hung tags for shutdown on Tuesday 4/12 and secured site with shoring board and cones. Spoke with someone from the homeowner association and informed him we would be cutting the road in order to run a new line.

Log date: 11-Apr-2016 3:17 pm

Logged by: RGIBERSON

Description: Loaded for job checked locates

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Work order number: Date Reported: Description:	625612 April 3, 2016 SLB 2016	7:47 am	Status: Assigned to: (P 3'x3' co		внт	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14				HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:						
Raining?				No		
Precipitation in previo	us 24 hours					
Frequency				One-time	spill	
Constituted a threat to	o human healt or	the environment	?	No		
Immediate response?				No		
Is the structure mapp	ed/inventoried?		,	Yes		
Investigated within 7	days?		•	Yes		
If suspected illicit con	nection, investiga	ated within 21 da	ys?	Not appli	icable	
Final resolution of illic	it connection with	nin six months?		Not appli	icable	
How did you learn ab	out the problem?			Other pu	blic report	
Source tracing metho	d		,	Visual re	con	
Indicator testing			,	Visual in	dicators	
Pollutants identified				Sedimen	t / spoil	
Source or cause				Other (se	ee notes)	
Correction and elimin	ation methods			Mitigated	by City of Bellevue	

WORK LOG / NOTES:

Log date: 03-Apr-2016 7:53 am

Logged by: DBENSON

Description:

Customer stated it wasn't seeping but bubbling through concrete. She was afraid the cracking concrete would collapse. Water is running out of concrete and down gutter line. Asked her if it could wait till sunday since I would be working anyway. She wanted someone to look today. Service is three quarter inch copper. Marked for locates and will follow up during shutdown sunday. Read 1903. Comments 320

Log date: 11-Apr-2016 8:22 am

Logged by: SSTANLEY

Description: Hung door tags on 4/6/16

Log date: 11-Apr-2016 8:23 am

Logged by: SSTANLEY

Description: Repaired on 4/8/16

Removed small area of concert between driveways. found a small pin hole in the .75" copper service line. Froze line and cut in about 2' of .75" copper. leak checked and flushed service line. Did not preform shut.

Meter# S517437

Read 1906

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Work order number: Date Reported: Description:	625778 April 4, 2016 3:01 pm IDDE - Construction dewate	3 - 3	COMP CVANHOOF nd Bellefield Residential Por	ıd
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		Ne	0	
Precipitation in previo	ous 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	o human healt or the environme	nt? Ye	es	
Immediate response?)	Ye	es	
Is the structure mapp	ed/inventoried?	Ye	es	
Investigated within 7	days?	Ye	es	
If suspected illicit con	nection, investigated within 21 d	ays? No	ot applicable	
Final resolution of illic	cit connection within six months?	Ne	ot applicable	
How did you learn ab	out the problem?	Po	ollution hotline	
Source tracing metho	d	Vi	sual recon	
Indicator testing		Tu	urbidity	
Pollutants identified		Se	ediment / spoil	
Source or cause		C	onstruction	

WORK LOG / NOTES:

Log date: 04-Apr-2016 3:04 pm

Logged by: CVANHOOF

Description: Investigation

Correction and elimination methods

Jacque Curran with Bellefield HOA called in turbid water entering their pond from the Surrey Downs neighborhood. I responded and tracked the discharge back to a multi-family construction site called Metric Townhomes. Windsor Construction (425-882-3151) is the contractor who was pumping down their private stormwater system into the MS4. I h them turn off the pump and stop the discharge. The turbidity was 70 NTU at the city catch basin and 21 NTU entering th pond.

Enforcement - Verbal notice

Aaron Roden educated the contractor and was very close to "Stop Work" on the site.

Pictures are attached to the work order.

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626212 **HOLD** Work order number: Status: Assigned to: BTHOMPSON Date Reported: April 6, 2016 11:55 am SLB 2016 Water "oozing" out by shoulder of road Patch 6'x7' Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable

Other public report

Chloride and fluroride

Mitigated by City of Bellevue

Visual recon

Public entity

Sediment / spoil

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Source tracing method

Log date: 06-Apr-2016 3:02 pm

Logged by: BTHOMPSON
Description: Water Leaking

Correction and elimination methods

How did you learn about the problem?

Responded to call of water coming from side of road. Water is seeping out right above the water main and slowly trickling down the driveway. Listened to both services, can hear the SL for 3274 W Lake Sammamish Pkwy SE. Marked out for locates and called in. Job scheduled for tomorrow 4-7-16

BT 326

Log date: 07-Apr-2016 12:34 pm

Logged by: RGIBERSON

Description: Pinhole in poly right by corp

Shut off corp and cut in 3' of 1" poly, ran from corp to PJP. Reused existing compression fitting on corp. Backfilled with 1 yard crushed and 1 unit cold mix. Purged air from setter, water off from 9am-10am. MOR filed, 12" DI water main runs riç by fog line 2.5' T.O.M. Meter #U628328 Read 1484.

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Work order number: Date Reported: Description:	626362 April 7, 2016 10:05 am WMB 2016 8" AC Skate Kin	Status: Assigned to: g contractor hit		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		O	ne-time spill	
Constituted a threat to	o human healt or the environme	nt? N	lo	
Immediate response?)	Υ	es	
Is the structure mapp	ed/inventoried?	Υ	es	
Investigated within 7	days?	N	ot applicable	
If suspected illicit con	nection, investigated within 21 d	ays? N	ot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	O	ther agency referral	
Source tracing metho	d	V	isual recon	
Indicator testing		C	hloride and fluroride	
Pollutants identified		S	ediment / spoil	
Source or cause		C	onstruction	
Correction and elimin	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 11-Apr-2016 7:17 am

Logged by: SSTANLEY

Description: Responded to call on 4/7/16

Got on site and found about 200gpm flowing out onto the work site. Throttled water main down and made customer contibefore we shut off the main. The shut down involved Cash and carry and the daycare in the strip mall, those were the on customers that were affected. Two services were off at 10:20am, left the main on till the contractor had it completely exposed, shut it off at 11am. When the new tee was installed, the contractor had installed the wrong gaskets and rings of the flex couplings so the gasket blew out on the bottom of the AC main. Rich had the contractor remove the new tee to install the correct gaskets and rings. Flushed for 30 minutes at 150gpm ending residual of 0.87. Services were back on a 2:30pm. Contractor is taking care of the patch.

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	Work order number: Date Reported: Description:	626585 April 8, 2016 12:39 pm SLB 2016 Leak near mailbo	Status: Assigned to:	CLOSE BTHOMPSON	
	GULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge	=
SP	ECIFICATIONS:				
	Raining?				
	Precipitation in previou	us 24 hours			
	Frequency			One-time spill	
	Constituted a threat to	human healt or the environmen	t? I	No	
	Immediate response?				
	Is the structure mappe	ed/inventoried?	•	Yes	
	Investigated within 7 c	days?	•	Yes	
	If suspected illicit conr	nection, investigated within 21 da	ays?		
	Final resolution of illici	it connection within six months?			
	How did you learn abo	out the problem?		Other public report	
	Source tracing method	d	\	Visual recon	
	Indicator testing		(Chloride and fluroride	
	Pollutants identified			Sediment / spoil	
	Source or cause				
	Correction and elimina	ation methods	ı	Mitigated by City of Bellevເ	ie

WORK LOG / NOTES:

Log date: 11-Apr-2016 3:14 pm

Logged by: BTHOMPSON
Description: SLB 2016

Report of water leaking by meter box. We tested for fluoride, came up positive. Started to hand dig around MB at 4410 133rd Ave SE and noticed water coming from a buried provisional service. Called in locates, got vactor out, found 1" dua service 1"copper-curb stob-T to 2-3/4 service lines. Took out the 1" T in curb stop, replaced with 1" mipxPJC ran 5' of 1" copper into 1x3/4 mipxpjc into existing setter. Backfilled with crushed and set new 13x24 box and lid. Will need to add to soil when convenient. 326

Log date: 13-Apr-2016 3:13 pm

Logged by: BTHOMPSON

Description: Restoration complete

Took out 6 buckets of topsoil and threw down some grass seed. 326

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Work order number: Date Reported: Description:	626601 April 8, 2016 1:39 pm SLB 2016 Caller reports wa	Status: Assigned to: ater gushing	CLOSE BTHOMPSON			
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called? NPDES?		
SPECIFICATIONS:						
Raining?						
Precipitation in previous	us 24 hours					
Frequency Constituted a threat to human healt or the environment?		C	One-time spill			
		nt?	No			
Immediate response?		Y	Yes			
Is the structure mappe	ed/inventoried?	Y	Yes			
Investigated within 7 c	days?					
If suspected illicit conr	nection, investigated within 21 d	ays?				
Final resolution of illici	it connection within six months?					
How did you learn abo	out the problem?	C	Other public report			
Source tracing method	d					
Indicator testing		C	Chloride and fluroride			
Pollutants identified		S	Sediment / spoil			
Source or cause		P	ublic entity			
Correction and elimina	ation methods	N	litigated by City of Bellevue			

WORK LOG / NOTES:

Log date: 11-Apr-2016 7:07 am

Logged by: BTHOMPSON
Description: SLB 2016

Break in 1' poly service line. Our 1" poly SL ran back towards the customer side and then took a 90 degree bend towards the water main. Line broke where the bend was, leaking at about 20gpm. Customer reports that it was leaking for days, a much lower rate but was told by COB h20 that it was ground water and no issue. Estimated water loss is about 6,000 gallons. We cut out the sharp bend in the poly, cut in about 4 feet of copper straight to the setter using a street ell and 3/4x1 mipxPJC. Will need to add new box, lid, and top soil today.

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Work order number: Date Reported: Description:	627058 April 12, 2016 3:23 pm Illicit Connection - Sewer di	Status: Assigned to: scharge into sto	COMP CVANHOOF orm catch basin		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Rec	•	X DOE Called? NPDES?
SPECIFICATIONS:					
Raining?		N	0		
Precipitation in previo	us 24 hours				
Frequency		С	ontinuous		
Constituted a threat to	human healt or the environme	nt? Y	es		
Immediate response?		Y	es		
Is the structure mapp	ed/inventoried?	Y	es		
Investigated within 7	days?	Y	es		
If suspected illicit con	nection, investigated within 21 of	days? Y	es		
Final resolution of illic	it connection within six months?	? Y (es		
How did you learn ab	out the problem?	S	taff referral		
Source tracing metho	d	V	isual recon		
Indicator testing		D	etergent and surfac	tants	
Pollutants identified		S	ewage / septage		
Source or cause		III	licit connection		
Correction and elimin	ation methods	M	litigated by respons	ible party	1

WORK LOG / NOTES:

Log date: 13-Apr-2016 6:25 am

Logged by: CVANHOOF

Description: Investigation

Bill Whiting found a possible cross connection during some routine catch basin cleaning (structure #366814) on 152 Ave SE. It looks someone's sanitary is tied into their footing/downspout drain pipe. There are 3 homes tied into the basin, 5791, 5803 and 5831 153rd Ave SE. Door hangers were left at the homes so dye testing could be done.

5803 153rd Ave SE was dye tested and blue dye discharged into the sanitary sewer.

Waiting to test the other 2 addresses.

Log date: 13-Apr-2016 2:42 pm

Logged by: CVANHOOF

Description: More investigation

Dye tested 5831 153rd Ave SE this morning and blue dye discharged through the sanitary manhole (203961).

Dye tested 5791 153rd Ave SE and dye discharge went into catch basin (366814). I met with Paul Soski the homeowne and looked at the issue and talked about the next steps.

He will receive a packet of information regarding repairing the illicit connection.

Log date: 01-Aug-2016 6:15 am

Logged by: CVANHOOF

Description: Correspondence from property owner on 7/29

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Hi Chris.

Just wanted to update you that I have sent your plans/diagrams to 3 sewer companies and am awaiting their bids. Will keep you updated so that you know this is progressing.

Regards,

Paul

Paul Solski

Tel. 425.208.5430

Log date: 07-Oct-2016 12:46 pm

Logged by: CVANHOOF

Description: Repair

Mr. Solski had Jim Dandy Plumbing come out and find the cross connection for repair. They cut the two pipes and reconnected to the storm and sewer so discharge was correct.

Sewer crew did a spot repair and verified the hook up.

Letter was sent to Mr. Solski letting him know and that letter is attached to this work order.

Log date: 26-Aug-2016 6:24 am

Logged by: CVANHOOF
Description: Update

Mr. Solski has been working with a plumbing contractor to try and get the work done. The contractor has been slow on scheduling and coming up with a game plan to fix the cross connection. I have also talked with the twice, but nothing ha been done on their end.

Log date: 07-Sep-2016 6:51 am

Logged by: CVANHOOF
Description: Site Visit

Met with Paul (Property Owner) and Mike (Jim Dandy Plumbing) to try and game plan a repair for the illicit connection. V are trying to use Mapshot measurements and camera measurements to find the area for excavation.

Both private connections of storm and sanitary are about 4 feet from each other. Because of the slope and the rockery, excavating the smallest are possible is the most beneficial.

Log date: 03-Jun-2016 6:16 am

Logged by: CVANHOOF
Description: Check In

Called Paul Solski yesterday and left a message checking in on the illicit connection to see where in the process he is at I have not received a return call as of yet.

Log date: 13-Jun-2016 6:29 am

Logged by: CVANHOOF
Description: Call back

Received a voicemail from Paul stating he has been out of the country and just returned so he will be contacting potentia contractors to bid the work. This was a return call because of a check in call I from earlier in the week.

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CLOSE 627135 Work order number: Status: Assigned to: **DBENSON** Date Reported: April 13, 2016 8:44 am SLB - 2016 Reference WO # 627644 BO LEAK EM loc #16107646 Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Other public report How did you learn about the problem? Visual recon Source tracing method Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 14-Apr-2016 7:05 am Log date: **DBENSON** Logged by: Description:

Marked for locates 4/13/2016. Will sent in Locate request today.

Log date: 13-Apr-2016 2:41 pm

Logged by: **DBENSON**

Description:

Box was full of water. Pumped out water and listened to service. Could not hear leak. Meter was not spinning. Service appears to be three quarter inch copper with a shorty resetter. Dug a hole by the street and came back later to collect sample for fluoride test. Test came up positive. Left cone in area. Will notify dig team so they can mark for locates and repair. Meter Read 1482. comments 320

18-Apr-2016 9:19 am Log date:

DBENSON Logged by:

Description:

Reference work order 627644. FOR THE BLOW OFF REPAIR Comments 320

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Work order number Date Reported: Description:		ned to: BTHOMPSON	
REGULATORY:		HPA Required? DOE Ca	lled?
Best Mgmt Practice	s (ESA): BMP-14	Illicit Discharge? NPDES	?
SPECIFICATIONS:			
Raining?		No	
Precipitation in pr	evious 24 hours		
Frequency		One-time spill	
Constituted a thre	at to human healt or the environment?	No	
Immediate respon	nse?	Yes	
Is the structure ma	apped/inventoried?	Yes	
Investigated within	n 7 days?	Yes	
If suspected illicit	connection, investigated within 21 days?		
Final resolution of	fillicit connection within six months?		
How did you learn	about the problem?	Other public report	
Source tracing me	ethod		
Indicator testing		Chloride and fluroride	
Pollutants identifie	ed	Sediment / spoil	
Source or cause		Public entity	
Correction and eli	mination methods	Mitigated by City of Bellevue	
WORK LOG / NOTES	S:		
Log date:	18-Apr-2016 2:43 pm		
Logged by:	BTHOMPSON		
Description:	Blow off on old maps		
Blow off was on the	ne old maps. It is not on new maps, which is	s fine since we now abandoned it.	
Log date:	15-Apr-2016 3:03 pm		
Logged by:	BTHOMPSON		
Description:	Found leak on old blow off		
We thought there	was a leak on the saddle, but when we due	down, we found a blow off tapped off of the side of the	he 8" /

Log date: 28-Apr-2016 11:01 am

main that was not on the maps. We put a 2 inch plug into tap coupling. 326

Logged by: DBENSON

Description:

Unearthed saddle and replaced it as well as corp. Tapped one inch. Tied into existing three quarter inch service with a three quarter by one inch pack joint.

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COMP 627730 Work order number: Status: **CVANHOOF** Date Reported: April 17, 2016 4:26 pm Assigned to: IDDE - Water main break into Vasa Creek Description: **REGULATORY: HPA Required?** X DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Visual recon Source tracing method

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Log date: 18-Apr-2016 7:01 am

Logged by: CVANHOOF

Description: Volume

Correction and elimination methods

Water Department estimated 125,000 gallons of discharge between the break and flushing. The flushing was dechlorina before entering Vasa Creek.

Turbidity

Sediment / spoil

Mitigated by City of Bellevue

Public entity

Log date: 18-Apr-2016 8:39 am

Logged by: CVANHOOF

Description: ERTS

ERTS 664380 was sent this morning from DOE after the overnight call in. The report is attached to the work order if needed.

Log date: 17-Apr-2016 4:29 pm

Logged by: CVANHOOF

Description: Response

4/16/16 - Water Department had a main break at 15006 SE 45th Place. Discharge entered the MS4 and eventually discharged into Vasa Creek. Turbidity sample take at catch basin before the creek was 108 NTU. Ecology was notified and impact to the creek was very minimal.

I also called Michael Pan (Drinking WQ) to make sure the break didn't cause sampling and since it was a controlled shut down and not a complete loss of pressure, flushing will be adequate when the repair is completed.

Pictures will be attached along with the ERTS once Ecology gets it to us.

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Investigated within 7 days?

Source tracing method

How did you learn about the problem?

HOLD 628016 Work order number: Status: Assigned to: **GKNIGHT** Date Reported: April 21, 2016 9:19 am SLL 2016 Leak Description: (P 4'x4') **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried?

Not applicable

Not applicable

Not applicable
Other public report

Visual recon

Public entity

Sediment / spoil

Chloride and fluroride

Mitigated by City of Bellevue

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Log date: 25-Apr-2016 8:27 am

Logged by: SSTANLEY

Correction and elimination methods

Description: Responded to call on 4/21/16

If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months?

Looks to be a small leak on the service line. Contact had stated that the water had been there for around a year. Will nee to repair and schedule water shut down .

Log date: 19-May-2016 2:52 pm

Logged by: SSTANLEY

Description: Checked locates on 5/19/16

Checked on the locates and met with Deon on site about scheduling a day to shut the water off. Maybe do the work on May 26 start work early morning to help keep customers with water. Will follow up later to make sure that day works.

Log date: **07-Jun-2016 2:43 pm**

Logged by: SSTANLEY

Description: 6/3/16 loaded for job

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Log date: **07-Jun-2016 2:44 pm**

Logged by: SSTANLEY

Description: Repaired completed on 6/5/16

Found a spilt in the poly service line where it comes out of the corp. Installed new saddle corp and 3' of 1.5" poly line. Le checked and flushed line. Leak was flowing at about 1/2 gallon a minute. Water main was off at 8:40am and back on at 11:30am, flushed for 100 minutes at 75gpm with ending residual of 1.01. The patch is 4'x4'. The leak was a total of 32,40 gallons of water.

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HOLD 628150 Work order number: Status: April 22, 2016 12:34 pm Assigned to: **GKNIGHT** Date Reported: SLB 2016 Leak (P11'x12') Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing

WORK LOG / NOTES:

Pollutants identified
Source or cause

Log date: 18-May-2016 3:00 pm

Logged by: RGIBERSON

Correction and elimination methods

Description: 5/16 Hung tags 5/18 Replaced saddles and services

Hung tags for S/D 8:30-3pm. Shoveled some of the gravel out of the previous excavation, then Vactored more of the crushed rock. We then dumped the rock out of the debris body so we could reuse it. Installed shoring as we excavated and exposed 8" DI water main and saddles, T.O.M. is 8' deep. Replaced both saddles and ran copper to a depth of 3' an installed 1" curb stops. Bedded and backfilled up to curb stops. Vactored a 3' deep trench from curb stops to setters. Replaced setters and ran new copper from curb stops. Pressure checked all connections, no leaks. Water services restored at 1pm. Flushed water main for 30 minutes at 50gpm. CL residual .79. Finished backfill and restored driveway v cold mix. Will return to set boxes and finish resto with topsoil. Meter P506318 Read 2084. Rick 337

Sediment / spoil

Mitigated by City of Bellevue

Public entity

Log date: 25-May-2016 3:00 pm

Logged by: RGIBERSON

Description: 5/19 Brought in topsoil 5/25 Set boxes

Restoration finished

Log date: 03-May-2016 8:20 am

Logged by: RGIBERSON

Description: Dug up lines near meter

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Shutdown water main at 9am and exposed around setters. Chased 1" poly lines which went straight down to about 6' Water was coming in from several spots in the trench but not following the lines when we clicked on the water main. Sett to 16238 was still loudest and after chasing lines for a few more feet water was following them, although we could not se the leak. We were about where we thought the main would be but had not seen it as well so we decided to fish tape and trace it. We had 323 come out to hook on to cable and found the lines ran to the edge of the private drive and the depth was reading close to 9'. This is consistent with them having leveled the area when the houses were built and the elevatic change to the backyard.

Spoke with 305 and because I did not want to block the customers driveway until late, It was decided to backfill and insta our road plate and schedule for Thursday 5/5. Spoke with customer who's drive we will be blocking and let them know wl day we were going to be there and let them know we that it was still leaking 2-3gpm. Services restored at 2pm, backfilled with 3yards crushed and flushed main for 20 minutes at 50gpm, CL residual .77. Rick 337

Log date: 29-Apr-2016 3:17 pm

Logged by: RGIBERSON
Description: Leak on service

Static pressure checked water main, hung tags for Monday.

Log date: 25-Apr-2016 3:40 pm

Logged by: RGIBERSON

Description: 4/22 possible small leak

Log date: 06-May-2016 9:43 am

Logged by: RGIBERSON

Description: Exposed saddles and shut off corp

Opened road where we thought services attached to the water main. Because we were closer to the rockery (grade had changed more) we had to dig through a few feet of rip rap. Because of the other utilities in the area we were unable to us a trackhoe or other such equipment. Dug down and found services 9' down and the 8" DI water main. At that point we did not have a big enough hole to get shoring in and it would be several hours before we would. We used a long meter wren to listen and then shut off corp for leaking service. We covered the main and lines with material and continued opening the hole for shoring. It was decided that it would be too late to replace saddles that day so we dug until the Vactor was full again and then backfilled with crushed rock. We jumpered the service we shut off from the neighboring one and secured the site.

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HOLD 628481 Work order number: Status: April 26, 2016 8:47 am Assigned to: RGIBERSON Date Reported: **SLB Leak** Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill Constituted a threat to human healt or the environment? No Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Pollutants identified Sediment / spoil Source or cause **Public entity**

WORK LOG / NOTES:

Log date: 27-Apr-2016 7:24 am

Logged by: RGIBERSON

Correction and elimination methods

Description: Leak on city side 1" poly

Marked and called for locates and left to get equipment. Water flowing at about 5gpm visible but could cause damage if i got worse. Dug down and crimped line, spliced in 1' of 1" copper. Read 235

Mitigated by City of Bellevue

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Work order number: Date Reported: Description:	628671 April 27, 2016 1:42 pm Water Quality-4 150th PI NE	Status: Assigned to:	CLOSE PARMSTRONG		
REGULATORY:			HPA Required?	DOE Called?	
Best Mgmt Practices (E	SA): BMP-2		Illicit Discharge?	X NPDES?	
SPECIFICATIONS:					
Raining?		N	lo		
Precipitation in previo	us 24 hours				
Frequency		(One-time spill		
Constituted a threat to human healt or the environment?		nt?	Yes		
Immediate response?)	Y	'es		
Is the structure mapped/inventoried?		`	Yes		
Investigated within 7	days?	١	Yes		
If suspected illicit connection, investigated within 21 days?		lays?	Not applicable		
Final resolution of illicit connection within six months?		•	Not applicable		
How did you learn ab	out the problem?	(Catch basin or manhole inspe	ection	
Source tracing metho	d	\	/isual recon		
Indicator testing		\	/isual indicators		
Pollutants identified		\	/ehicle fluids		
Source or cause		5	Source not identified		

WORK LOG / NOTES:

Log date: 23-Jun-2016 2:06 pm

Logged by: PARMSTRONG

Correction and elimination methods

Description: Water q site cleaning

The crew went to the above location and cleaned all the Assets that needed it from the previous inspection ..all is clean and ok to close.

Mitigated by City of Bellevue

Log date: 24-May-2016 6:09 am

Logged by: KPETERSON

Description: WQSITE Inspection

636 Inspected site on 5/23/16. Flow Control 323984 is more than 25% full of sediment and requires cleaning. The gate wheel is not operable without making an entry, not sure if it will turn. Inspection revealed spilled oil accumulated in flow control. The Stack is preventing oil from making its way past the FC, and the tank above does not have any oil in it. I Placed booms in the structure to mitigate. CB 325484 downstream of FC has roots in the pipe and is causing a partial blockage. CB2 320857 is more than 50% full of sediment and needs cleaning. Tank 327556 has visible sediment buildup the tank and needs cleaning.

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Work order number: Date Reported: Description:	628840 April 28, 2016 9:25 am SLL 2016 Leak on COB	Ctatao.	CLOSE SSTANLEY	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		No	0	
Precipitation in previo	us 24 hours			
Frequency		Oı	ne-time spill	
Constituted a threat to	human healt or the environm	ent? No	0	
Immediate response?)	Ye	es	
Is the structure mappe	ed/inventoried?	Υe	es	
Investigated within 7 of	days?	No	ot applicable	
If suspected illicit con	nection, investigated within 21	days? No	ot applicable	
Final resolution of illic	it connection within six months	? N o	ot applicable	
How did you learn abo	out the problem?	Of	ther public report	
Source tracing metho	d	Vi	sual recon	
Indicator testing		CI	nloride and fluroride	
Pollutants identified		Se	ediment / spoil	
Source or cause		Pı	ublic entity	

WORK LOG / NOTES:

Log date: **04-May-2016 7:15 am**

Logged by: SSTANLEY

Correction and elimination methods

Description: Responded to call on 4/28/16

Checked the services in the area and heard a leak on the 1.5" service the feeds the park. Marked area for locates.

Mitigated by City of Bellevue

4/29/16 Hung door tags for shut down on 5/3/16

5/2/16 put up no parking signs

Log date: 04-May-2016 7:17 am

Logged by: SSTANLEY

Description: Repaired leak on 5/3/16

Dug up and exposed the 1.5" copper service line and found a little crack in the service line. Cut out the spilt on the 90 an installed new 90 with pack joints. Did not do the water main shut down, was able to turn the corp off. The saddle was in good shape and the main is going to be replaced in 2019.

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COMP 628994 Work order number: Status: Date Reported: April 29, 2016 2:29 pm Assigned to: Oil spill Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? 1 Precipitation in previous 24 hours One-time spill Frequency Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon Visual indicators Indicator testing Pollutants identified Vehicle fluids Construction Source or cause Education / technical assistance Correction and elimination methods

WORK LOG / NOTES:

Log date: 03-Feb-2017 10:56 am

Logged by: BMILLER

Description: This was a spill that stayed on site and was cleaned up

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Work order number: Date Reported: Description:	629183 May 2, 2016 Vehicle Fire	6:57 am	Status: Assigned to:	CLOSE TPILANI)	
REGULATORY: Best Mgmt Practices (E	SA): BMP-1				HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:						
Raining?						
Precipitation in previo	us 24 hours					
Frequency						
Constituted a threat to	human healt o	or the environmen	t?			
Immediate response?						
Is the structure mappe	ed/inventoried?					
Investigated within 7 of	days?					
If suspected illicit con	nection, investi	gated within 21 da	ays?			
Final resolution of illic	it connection w	ithin six months?				
How did you learn abo	out the problem	1?				
Source tracing method	d					
Indicator testing						
Pollutants identified						
Source or cause						
Correction and elimina	ation methods					

WORK LOG / NOTES:

Log date: 02-May-2016 8:39 am

Logged by: MCPAN
Description: Site Visit

On 5/1/15 @ 1133, MPan was informed by Travis P of a vehicle fire that had taken place around 0930 hour, and Fire De had already left upon his arrival. MPan responded and arrive at location around 1230. Only one catch basin near the entrance of P&R on the eastside had signs of liquid going in there; minimal amount of liquid inside of that catch basin. Following the map, three other downstream catch basins were checked and found no indication of discharge. Detention pond was also checked with no visible signs of discharge.

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Work order number: Date Reported: Description:	629553 May 3, 2016 7:44 pm Spill responce	Status: Assigned to:	CLOSE CRBROWN	
REGULATORY: Best Mgmt Practices (E	·SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?			No	
Precipitation in previo	ous 24 hours			
Frequency			One-time spill	
Constituted a threat to	o human healt or the environm	ent?	No	
Immediate response?)	,	Yes	
Is the structure mapp	ed/inventoried?	•	Yes	
Investigated within 7	days?	,	Yes	
If suspected illicit con	nection, investigated within 21	days?	Not applicable	
Final resolution of illic	it connection within six months	?	Not applicable	
How did you learn ab	out the problem?	,	Staff referral	
Source tracing metho	d	•	Visual recon	
Indicator testing		•	Visual indicators	
Pollutants identified			Allowable discharge	
Source or cause			Residential	
Correction and elimin	ation methods		No action needed	

WORK LOG / NOTES:

Log date: **04-May-2016 7:56 am**

Logged by: JSIZEMORE
Description: Meet on Site

Met with Scott Wilde. We determined there was no debris in the CB's. Talked with Bellevue Fire. They indicated that 1000's of gallons were used to put out the fire. No foam was used. Spoke with Chris VanHoof in the morning to determinext steps. he made a call into Redmond to see if an IDDE was reported to DOE. Will follow-up

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Work order number: Date Reported: Description:	629584 May 4, 2016 9:59 am IDDE - Paint washout into	Status: Assigned to: private catch bas	COMP CVANHOOF sin	
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	o human healt or the environm	ent? N	lo	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21	days? N	lot applicable	
Final resolution of illic	cit connection within six months	s? N	lot applicable	
How did you learn ab	out the problem?	В	susiness inspection	
Source tracing metho	od	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		P	aint	
Source or cause		S	ource not identified	
Correction and elimin	ation methods	N	litigated by responsible part	V

WORK LOG / NOTES:

Log date: **04-May-2016 10:49 am**

Logged by: CVANHOOF

Description: Investigation

During the PDI, found discolored water in the private catch basins from paint washout. The product was caught in the swale/pond and will infiltrate. I will talk with Morris Management about contractor's and Best Management Practices.

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Work order number: Date Reported: Description:	629602 May 4, 2016 12:52 pm IDDE - Pressure washing wi	Status: Assigned to: th detergent int		
REGULATORY: Best Mgmt Practices (E.	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	No	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environme	nt? Y	/es	
Immediate response?		Y	res es	
Is the structure mappe	ed/inventoried?	Υ	'es	
Investigated within 7 of	days?	Y	/es	
If suspected illicit con	nection, investigated within 21 o	lays? N	Not applicable	
Final resolution of illic	it connection within six months?	N	Not applicable	
How did you learn abo	out the problem?	В	Business inspection	
Source tracing method	d	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		S	Soap / detergent	
Source or cause		C	Commercial - Mobile busines	S

WORK LOG / NOTES:

Log date: 04-May-2016 12:54 pm

Logged by: CVANHOOF

Correction and elimination methods

Description: Response and education

During PDI today at the site, Lund Painting was pressure washing the driveways with a cleaner called Soft Wash. The runoff was entering one private catch basin. The crew stopped cleaning and met with Brian Lund (Owner) to educate regarding the impact the bleach based cleaner would have on the environment.

Education / technical assistance

We discussed different cleaning options and a couple different discharge options.

Seems like they will change their business process and use better Best Management Practices when cleaning before paint.

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HOLD 629768 Work order number: Status: **GKNIGHT** Date Reported: May 5, 2016 1:25 pm Assigned to: SLL 2016 Service Line Leak (P 4' X 4') Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Visual recon Source tracing method

Not used

Sediment / spoil

Other (see notes)

Mitigated by City of Bellevue

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Log date: 05-May-2016 1:45 pm

Logged by: JHARRISON

Correction and elimination methods

Description: Flowtest done on 4/1/16 BT will check on leak

Log date: **05-May-2016 3:10 pm**

Logged by: BTHOMPSON

Description: SLL <5gpm surfacing

Water is coming up from about 1 ft off the water main. Main is 12 DI. Flow is less than 5gpm. Service down the street wa 1" poly. Assuming it would be the same. 3/4 setter. Marked out for locates. Ticket # 16135100. Water service has been c since 4/1/16 when I did a flow test, assuming nobody is living at the residence.

BT 326

Log date: **20-May-2016 9:21 am**

Logged by: SSTANLEY

Description: Repaired on 5/6/16

Dug up and found there was a small leak in the poly line right where it comes out of the corp. Shut off corp and replaced couple feet of 1" poly. Flushed service line and leak checked.

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Work order number: Date Reported: Description:	630020 May 9, 2016 5:19 pm SLB 2016 5427 143rd Ave	Status: Assigned to: SE (P 50'x4')	HOLD GKNIGHT	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride

Sediment / spoil
Public entity

Mitigated by City of Bellevue

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 12-May-2016 3:09 pm

Logged by: RGIBERSON

Correction and elimination methods

Description: 5/11 Finished service 5/12 Resto'd

5/11-Traced out line so we would follow trench. Unfortunately we had to dig with the Vactor because of several utility crossings that we had to make. Ran new service from curb stop (located in valve can at edge of sidewalk) across road to 5427. Installed new setter and pressure checked, no leaks. We also ran a new provisional line (capped at both ends) for 5415 in the same trench (see WO 630021)

5/12 Finished resto Rick 337

Log date: 10-May-2016 6:03 pm

Logged by: RGIBERSON

Description: 5/9 abandoned original corp 5/10 ran portion of service

On 5/9 after digging up services for 5510 and 5520 we determined the leak was on the service for 5427. We Dug up a previous spot repair on the line and traced it into the landscaping. Dug up and exposed existing direct tap corp. Remove and replaced with CC plug. Moved saddle for this service next to the other saddles for 5510, 5520 and 5419. Ran service along side walk and cut out leak on poly. Hooked to existing line but found another leak on the line. At this point we left line off for the evening with house jumpered from 5419 and planned to run new line the next day. Rick 337

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Log date: 06-Jan-2017 1:53 pm

Logged by: **GKNIGHT**Description: **Restoration**

Sidewalk completed. Inspected 1/6/17, Invoice 83433 / Asphalt completed. Inspected 1/18/17, Invoice 83434 / Need G&C

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Work order number: Date Reported: Description:	630142 May 10, 2016 3:17 pm Customer complaint of an I	Status: Assigned to:	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	Other (see notes)	
Constituted a threat to	human healt or the environme	ent?	lo	
Immediate response?		Y	'es	
Is the structure mappe	ed/inventoried?	Y	'es	
Investigated within 7 of	days?	Y	'es	
If suspected illicit con	nection, investigated within 21	days?	lot applicable	
Final resolution of illic	it connection within six months	?	lot applicable	
How did you learn abo	out the problem?	E	ERTS	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		N	lone found	
Source or cause		S	Source not identified	

WORK LOG / NOTES:

Log date: 10-May-2016 3:19 pm

Logged by: CVANHOOF

Correction and elimination methods

Description: ERTS and Investigation

DOE report was filed through EPA of illicit dumping into a private catch basin at Auto Connections. Made a site visit and found the detail washing cars in the back area which drains through an oil/water separator and to the sanitary system. The storm drains did not have any evidence of discharge in them.

No action needed

I called DOE with an update and Colleen Crotty told me the report had been filed with EPA a month prior to DOE receivir it.

Log date: 11-May-2016 9:05 am

Logged by: CVANHOOF

Description: ERTS

ERTS 664863 was created and the site visit was done from that.

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CLOSE 630188 Work order number: Status: Date Reported: May 11, 2016 8:52 am Assigned to: RGIBERSON SLL 2016 meter shut off will not shut off and is leaking now Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Visual recon Source tracing method Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified

WORK LOG / NOTES:

Source or cause

Log date: 12-May-2016 2:44 pm

Logged by: ERICE

Correction and elimination methods

Description: Customer side service line leaking

We were sent to finish restoration on meter box, found customer side dual purpose was loose and leaking, customer side galvi is very rusted and leaking. tightened dual purpose and left a tag for customer. covered meter over with boards and cones, Meter Sensus #68792325 r 169, gr 314 bd 320.

Public entity

Mitigated by City of Bellevue

Log date: 13-May-2016 7:22 am

Logged by: MHOEL

Description: 5/11/16 I went out and looked to see what was needed

and came back to the shop pulled parts and then went back out and froze the service line and dug out the area. I then pulled out the old meter setter and installed the new one tested for leaks. I went and flushed at the customer side hose b and checked to see if it was leaking in the hole customer side is Galv pipe and nothing was leaking at that time. I put some boards over the hole until someone could come back and back fill.

Meter # 68792325

read 169

Log date: 16-May-2016 3:05 pm

Logged by: JHARRISON

Description: Michael Pan called @ 3:00 stating customer called him

About a leak

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Log date: 17-May-2016 2:58 pm

Logged by: RGIBERSON

Description: Removed leaking galvy on customer side and hooked to copper

Tiny pinhole on customer side galvy but customer had 3/4" copper beyond that. Meter was not registering leak as it was so small. Added 3/4" nipple, 3/4" coupling and 3/4" MIPxPJC to hook to 3/4" copper. Customer was not home, hung door tag explaining we had fixed the leak. Set box and resto'd area with small amount of topsoil from EGY. Read 170. Rick 33

Log date: **06-Jun-2016 4:37 pm**

Logged by: JHARRISON

Description: We had pulled the meter for WQ for the lead testing program

Not sure if leak was before or caused by COB, we went a head a made a repair

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Work order number: 630189 Status: COMP
Date Reported: May 11, 2016 8:42 am Assigned to: BMILLER

Description: Illicit Spill - Concrete into storm drain

REGULATORY:	HPA Required?	X DOE Called?
Best Mgmt Practices (ESA):	X Illicit Discharge?	X NPDES?

SPECIFICATIONS:

Raining?	
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	Yes
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Visual indicators
Pollutants identified	Cement / concrete
Source or cause	Construction
Correction and elimination methods	Education / technical assistance

WORK LOG / NOTES:

Log date: 11-May-2016 3:01 pm

Logged by: BMILLER

Description: Checked CB in front of Driveway

I knoicked on door no answer I also checked CBs and left information to home owner to call. there was evidence that it went down the CB from the tailings

Log date: 11-May-2016 3:05 pm

Logged by: BMILLER

Description: Went back to talk with nieghbor about the action to get cleaned up.

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Hi Brian,

Ross Henderson at 15032 Se 66th St called this morning reporting that his neighbors living at 6542 152nd Ave Se had a new driveway poured over the weekend and the contractor had washed the concrete debris down the street into the story drain. He said it was noticeable which storm drain as there is a trail of the debris.

Ross Henderson's phone number is 425-241-1189

There was no permit on file and according to our Clear and Grade inspector Mark Tullis, none was needed as this drivew was less than 2000 sq feet and was being replaced like for like.

I hope this helps. Let me know if you have any other questions.

Thanks,

Lisa Siegman

City of Bellevue¦Development Services Department Email: lsiegman@bellevuewa.gov |Phone: (425) 452-7694

Log date: 11-May-2016 4:07 pm

Logged by: BMILLER

Description: Attached ERST and went out to site

Took pictures

Log date: 13-May-2016 3:39 pm

Logged by: BMILLER

Description: Spoke with Eric and his son about education of stormwater

A-1 Concrete did the driveway had them clean up curb line and CB

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Work order number: 631446 Status: REWORK

Date Reported: May 26, 2016 6:49 am Assigned to: RGIBERSON

Description: SLB 2016 Text at 10:20pm - Stream of water running down curb

REGULATORY:
HPA Required?
DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 27-May-2016 10:47 am

Logged by: BTHOMPSON

Description: SLR 2016 Split in 1" Poly

Found 1" split in poly service line between curb and meter box. Cut in 1.5' of 1" copper using 2 PJCxPEPs. Meter would stop spinning when we restored water, occasionally would spin a little and then stop and spin very slow. Customer did not speak English. There was a tracing wire on poly so we traced it out to the main just to get an idea of where the saddle is it leaks again in the future. BT 326

Meter: X316369 Read: 2388

Log date: 26-May-2016 2:37 pm

Logged by: JHARRISON

Description: Call came in @2:35 said water coming up worse where

locate marks are getting put down? Dale 425 269 2118 lives @ 4818> COB Dale in route. He called in @ 3 said we car make repairs tomorrow 5/27. I then called customer Dale back and informed we will be out tomorrow to make repairs

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Log date: 26-May-2016 6:57 am

Logged by: DBENSON

Description:

5/25/16 - Talked with customer. He said it was flowing about a half of a gallon a minute. Told him someone would come out in the morning and let him know the findings.

5/26/2016 - Meter is slightly spinning. Turned off service for a few minutes while I dug out the box. Can still here leak at meter and is still running down curb line. Leak appears to be close to meter box. Turned service on and the customer side filled up for a few seconds. Appears that customer has a leak as well. Will mark for locates. Marked for locates. Will file today. Meter x316369 read 2388.

Log date: 31-May-2016 3:18 pm

Logged by: RGIBERSON

Description: Traced out service

Weak signal but saddle appears to be 5' away from valve. Service length 35'.

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Work order number: 631466 Status: CLOSE

Date Reported: May 26, 2016 9:57 am Assigned to: GKNIGHT

Description: SLB 2016 Water leaking in street (P 8x6)

REGULATORY:	HPA Required?	DOE Called?
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 07-Dec-2016 8:16 am

Logged by: **GKNIGHT**Description: **Restoration**

Restoration work completed. Inspected 11/18/16, Invoice 82733

Log date: 01-Jun-2016 2:07 pm

Logged by: RGIBERSON

Description: Replaced service

Water off from 8:30-12. Exposed saddles, leak was right near corp on 1" poly. Shutdown water main and replaced both saddles (see WO 631535). Ran 19' of 1" copper to new 3/4" setters. Flushed main for 45 minutes at 30gpm. CL residual 1.02. Meter #61562928 Read 1111. Rick 337

Log date: 01-Jun-2016 3:34 pm

Logged by: JHARRISON

Description: 3:31 a call from 13893 se 64th NO water called PD to t/o
Service order # 58730. when Paul on site found it was the cust-side still off not COB

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Log date: 26-May-2016 2:43 pm

Logged by: MHOEL

Description: 5/26/16 I was asked to go out and check to see what was going

With the water in the road, I found that it sounds like the service line is leaking at 13892 se 64th st I marked the area out for locates and let Jenelle know that there is a leak.

Log date: 27-May-2016 2:06 pm

Logged by: **DBENSON**

Description:

5/27/2016 - hung tags in the am. comments 320

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COMP 632785 Work order number: Status: Assigned to: CVANHOOF Date Reported: June 1, 2016 6:01 am **IDDE - Sewer overflow into Lake Sammamish** Description: **REGULATORY: HPA Required?** X DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency Intermittent Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Not applicable Final resolution of illicit connection within six months? Staff referral How did you learn about the problem? Source tracing method Visual recon Other Indicator testing

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 03-Jun-2016 11:33 am

Logged by: CVANHOOF

Description: Sample Results

Correction and elimination methods

First round of samples came back with the following colonies count: 1450 (430), 1460 (230) and 1430 (<10). Todd Yerke at King County Public Health asked that we sample again. Second round of samples was taken at 1450, 1460 and 1610 West Lake Sammamish Parkway addresses. Sample results came back in morning of 6/3 with counts at 1450 (20), 1450 (<10) and at 1610 (10).

Sewage / septage

SAnitary overflow

Mitigated by City of Bellevue

King County was notified and a flyer was given to the homeowners informing them that the lake was safe.

Many documents are attached to this work order.

Log date: 01-Jun-2016 6:04 am

Logged by: CVANHOOF

Description: Response & Sampling

Due to 2 overflow incidents, Lake Sammamish was sampled for fecal coliform. KC Public Health was notified and their recommendation was to sample at the SSO site and then up lake and down lake from the clean out. Samples were take at 1430, 1450 and 1460 West Lake Sammamish Parkway NE addresses and taken to AMTEST to be processed. A letter was also given to all the homeowners from the 1300 block to the 1700 block notifying them of the incident and to be aware of possible water quality issues.

ERTS 665270 and 665271 were created by DOE for the incidents and are attached to the work order.

Sample results should be back in the afternoon of 6/1.

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	.			
Work order number: Date Reported: Description:	632980 June 2, 2016 11:30 am IDDE - BFD requesting Sur	Assigned to: C	OMP VANHOOF	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	ESA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		No		
Precipitation in previo	ous 24 hours			
Frequency		One	e-time spill	
Constituted a threat t	o human healt or the environm	ent? No		
Immediate response	?	Yes		
Is the structure mapp	ed/inventoried?	Yes		
Investigated within 7	days?	Not	applicable	
If suspected illicit con	nection, investigated within 21	days? Not	applicable	
Final resolution of illic	cit connection within six months	? Not	applicable	
How did you learn ab	out the problem?	Poll	ution hotline	
Source tracing metho	od	Indi	cator testing	

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Log date: 06-Jun-2016 5:40 am

Logged by: RHOLLAND

Correction and elimination methods

Description: Cleaned 4 structures with #3618

6-3-2016, (ron and lamont cleaned Ass# 316107,316108,321834,321856 to remove clorine run off from contractor clear residential home on 6-2-2016.

Acidity / Alkalinity level

Commercial - Mobile business
Mitigated by City of Bellevue

Soap / detergent

Log date: 06-Jun-2016 6:08 am

Logged by: **CVANHOOF**Description: **Investigation**

Bellevue Fire called in a pressure washing contractor using bleach to clean a roof and driveway at 10815 NE 19th Place. Chinook Services was the contractor onsite cleaning with bleach injection for both the roof and driveway. Discharge was running down the curb line of NE 19th Pl and entering basin 321856. We stopped them from cleaning and educated the crew on cleaning without agents and using Best Management Practices (BMP) for protecting the basins from sediment. The COB Storm Crew stopped by and cleaned the affected catch basins.

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633054 **CLOSE** Work order number: Status: June 3, 2016 11:44 am Assigned to: SSTANLEY Date Reported: TRANS 2016 SLB contractor put rod into copper line ne 8th & 120th Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:**

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 03-Jun-2016 2:49 pm

Logged by: SSTANLEY

Description: Responded to call on 6/3/16

Got on site and contractor had already crimped the line off. Had contractor set up traffic control and they did the digging expose the line so we could make our repair. We froze the line and installed about 3' of 1" copper and 2 pack joints. Flushed the service line and leak checked, reinstalled the water meter and flushed at the customers hose bib. The line the was hit is a brand new 1" copper line that they had installed. The new line was not located by the concert company that was driving in the concert stakes to hold there forms. Robert from Trans may make they replace the whole service line. I concert company that was on site had moved off to another location. No patch required. Goodfellow Bros. was on site ar they are the ones that help with the repair. Contact info of Ken Laudermilk 206-714-9934.

Meter# 58936150

Read 753

Log date: 08-Jun-2016 8:48 am

Logged by: SSTANLEY

Description: Parts picked up from contractor 6/7/16

Contractor replaced the 2 1" copper pjc. So only parts the city was 1" copper.

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CLOSE 633081 Work order number: Status: June 3, 2016 1:49 pm Assigned to: **GKNIGHT** Date Reported: SLB 2014 leak at water meter (patch) Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon **Flow** Indicator testing Pollutants identified Other (see notes) **Public entity** Source or cause Mitigated by City of Bellevue Correction and elimination methods

WORK LOG / NOTES:

Log date: 29-Dec-2016 1:17 pm

Logged by: **GKNIGHT**

Description:

Asphalt & concrete work completed. Inspected 5/27/16. Invoice 78117 & 78123 (Original WO 515885)

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633112 **CLOSE** Status: Work order number: Assigned to: SSTANLEY Date Reported: June 4, 2016 3:10 pm SLL 2016 TXt @ 1:11pm Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable

Other public report

Chloride and fluroride

Mitigated by City of Bellevue

Visual recon

Public entity

Sediment / spoil

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Source tracing method

Log date: 07-Jun-2016 9:14 am

Logged by: SSTANLEY

Correction and elimination methods

How did you learn about the problem?

Description: Repaired on 6/6/16

Dug up and found a spilt in the poly line where it was coming out of the corp. Replaced saddle and tied back into the poly service line. Did not have to remove any of the roadway, there was grass growing out of the cracks in the asphalt. The rc has been cracked before the leak started, customers stated that it is normal for a little amount of ground water to flow down the street. Water main was shut down at 8:50am and services were back on at 2:00pm, flushed for 120 minutes at 100gpm ending residual of .69.

Meter# 71231268

Read 276 Log date:

04-Jun-2016 3:17 pm

Logged by: PDILLS

Description: CREW RESPONSE: 06/04/16

Texted about water coming up from pavement. Spoke with customers on site and got a consensus that water has been coming up for about a week but mixed reports if it is worse or the same. Water coming up about 3gpm. Spoke with SS#315 as he is coming in on Sunday 06/05/16 for a repair to have him take another look at it if he had time to make sur things were not worse. He told me to hang tags for Monday 06/06/16 to make the repair. He also told me if their job goes smooth and quick on Sunday he will try and stack this leak on the back end and get them both done and they will just knock on doors. Spoke with JH#305 to give her heads up.

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D	Vork order number: Date Reported: Description:	633970 June 13, 2016 SLL 2016 Water		Status: Assigned to: 2 meter boxe		- ILEY	
	ULATORY: st Mgmt Practices (ES	SA): BMP-14				HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPEC	CIFICATIONS:						
R	Raining?				No		
P	Precipitation in previou	us 24 hours					
F	requency				One-time	spill	
C	Constituted a threat to	human healt or t	he environment	<u>:</u> ? I	No		
Ir	mmediate response?			•	Yes		
ls	s the structure mappe	ed/inventoried?		•	Yes		
Ir	nvestigated within 7 d	lays?			Not appli	cable	
lf	suspected illicit conr	nection, investigat	ed within 21 da	ys? I	Not appli	cable	
F	inal resolution of illici	t connection withi	n six months?		Not appli	cable	
Н	low did you learn abo	out the problem?			Other pu	blic report	
S	Source tracing method	t		•	Visual re	con	
Ir	ndicator testing				Chloride	and fluroride	
Р	Pollutants identified				Sedimen	t / spoil	
S	Source or cause				Public en	ntity	
C	Correction and elimina	ation methods			Mitigated	by City of Bellevue	

WORK LOG / NOTES:

Log date: 15-Jun-2016 8:11 am

Logged by: SSTANLEY

Description: Responded to call on 6/13/16

Checked on the water flowing, checked the water meters in the area and no meters were spinning. Listened to the servic line and heard the leak. Shut off water meter and the water continued to flow. Will need to repair on 6/14, Called 305 to have the light pole held. Hung tags for a shut down on 6/14/16 9am to 3pm.

Log date: 15-Jun-2016 8:14 am

Logged by: SSTANLEY

Description: Repaired on 6/14/16

Found that there is a spilt in the 1" poly line. We cut in about 1' of 1" copper and flushed the water service. Water main was off at 10:15am and back on at 1pm. Flushed at 80gpm for 60 minutes, with ending residual of 1.00. Total water used with leak and flushing of 6,240 gallons. The customer service line is in really poor shape (see pictures). The threads cracked while making the repair and reinstalling the water meter. Was able to make a repair using galvi MIP by PJC and new 3/4" dual purpose. I made contact with the property manager to info him of the condition of the service line, I also emailed him the same pictures that are attached to the work order. His information is Edward Chang 425-652-1988 Email of edwardchang@gmail.com.

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Log date: 14-Jun-2016 6:11 am

Logged by: JHARRISON

Description: JUNE 13 PER SCOTT NEED TO HOLD LIGHT POLE

I called and talked with Paul @ PSE 425-456-2618 he will have a crew on site in the morning to remove the pole and or hold it. I informed him we will be on site by 9 a.m. June 14th

Log date: 14-Jun-2016 2:02 pm

Logged by: JHARRISON

Description: Scott called in said our crew is done with repairs

okay for PSE to put the pole back . I called Paul @ PSE and thanked him for the help, He will get a crew out to replace

the pole

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Work order number: Date Reported: Description:	634119 June 13, 2016 11:32 am SLL 2016 Water leaking in s	Status: Assigned to: treet	HOLD SSTANLEY (P 6'x5')	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	No	
Precipitation in previo	us 24 hours			
Frequency		(One-time spill	
Constituted a threat to	human healt or the environme	nt?	No	
Immediate response?		١	Yes	
Is the structure mappe	ed/inventoried?	١	Yes	
Investigated within 7 of	days?	1	Not applicable	
If suspected illicit con	nection, investigated within 21 o	days?	Not applicable	
Final resolution of illic	it connection within six months'	?	Not applicable	
How did you learn abo	out the problem?	(Other public report	
Source tracing metho	d	\	/isual recon	
Indicator testing		(Chloride and fluroride	
Pollutants identified		5	Sediment / spoil	
Source or cause		F	Public entity	
Correction and elimina	ation methods	N	Mitigated by City of Bellevue	<u> </u>

WORK LOG / NOTES:

Log date: 23-Jun-2016 7:15 am

Logged by: SSTANLEY

Description: Responded to call on 6/13/16

Found there was a small amount of water coming out of patch in the street, about 1/2 gallon a minute.

6/15/16 marked area for locates and turned locates in

6/17/16 Hung shut down door tags for 6/20/16

Log date: 23-Jun-2016 7:17 am

Logged by: SSTANLEY

Description: Repaired on 6/20/16

Found a small pin hole it the poly line. Cut and line and installed a poly pack joint. Main was shut down at 9am and services were back on at 10am. Flushed for 40 minutes at 50 gpm ending residual of 0.68. Patch of 6'x5'

Log date: **07-Sep-2016 7:22 am**

Logged by: SSTANLEY

Description: Prefromed PSI check on 8/22/16

Preformed the pressure test and when we got the main shut off the section of water main lost pressure. We flushed the main and turned the services back on.

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Work order number: Date Reported: Description:	635961 June 14, 2016 6:31 am IDDE - Sewer overflow from	Status: Assigned to: n King County in	COMP CVANHOOF to storm	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	ous 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	o human healt or the environme	ent? Y	es	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21	days? N	ot applicable	
Final resolution of illic	cit connection within six months	? N	ot applicable	
How did you learn ab	out the problem?	C	ther agency referral	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		S	ewage / septage	
Source or cause		S	Anitary overflow	
Correction and elimin	ation methods	N	litigated by responsible party	/

WORK LOG / NOTES:

Log date: 14-Jun-2016 6:37 am

Logged by: CVANHOOF

Description: Response & Investigation

Kevin with King County called (206) 255-8887 to report a sewer overflow they had at Heathfield Pump Station due to a power failure. The discharge was around unknown but they cleaned up about 500 gallons with their vactor. The system designed to overflow into a COB sewer manhole which also a cross over pipe designed to drain into storm if needed. Sewer discharge made it into storm structures 364374 and 355795. The last structure is a control manhole which detain the volume.

There was also overflow on the roadway according to King County which was cleaned up by their crew with peroxide and recovered by the vactor.

I traced and tracked with King County the MS4 which flows down to Lake Sammamish discharging the Sunset Pump Station next to Vasa Park. The was not any evidence of product past the control manhole and storm system had flow frc groundwater. KC also took samples along the Lake Sammamish shoreline was part of their protocol.

Kevin told me they reported the overflow to DOE so when an ERTS is received it will be attached to the work order.

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Work order number: Date Reported: Description:	636474 June 20, 2016 7:00 am SLB Water flowing at about	Status: Assigned to: 1 gallon every	WAUDIT RGIBERSON 20 minutes	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	human healt or the environme	nt?	lo	
Immediate response?		Y	es	
Is the structure mappe	ed/inventoried?	Y	es	
Investigated within 7 of	days?	N	lot applicable	
If suspected illicit con	nection, investigated within 21 d	lays? N	lot applicable	
Final resolution of illic	it connection within six months?	·	lot applicable	
How did you learn abo	out the problem?	C	Other public report	
Source tracing metho	d	V	isual recon	
Indicator testing		C	chloride and fluroride	
Pollutants identified		N	lone found	
Source or cause		P	ublic entity	
Correction and elimina	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 20-Jun-2016 7:04 am

Logged by: SSTANLEY

Description: Called customer on 6//19/16

Made customer contact and he stated that there was water coming out of a patch in the road at a rate of 1 gallon every 2 minutes, and sometime it might even be less. Will check out on Monday.

Log date: 20-Jun-2016 3:37 pm

Logged by: RGIBERSON
Description: Leak on poly

Hung tag and pulled parts. Truck loaded for repair tomorrow 6/21. Rick 337

Log date: 21-Jun-2016 12:28 pm

Logged by: RGIBERSON

Description: Replaced saddle and service line

Shutdown water main 9am-12. Replaced saddle and ran 6' of copper. Attached to copper that had been installed previou on prior leak (see WO583692). Flushed 30gpm for 45 minutes both directions. CL residual 1.13. Flushed out of setter as well. Meter #65565680 Read 609. Water chart and MOR filled out. Rick 337

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Log date: 23-Jun-2016 2:56 pm

Logged by: **GKNIGHT**Description: **Restoration**Restoration work on WO 583692

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Description:

Work order number: Date Reported: Description:	636807 Status: June 21, 2016 9:47 am Assigne SLR 2016 (P 5'x5' concret) Water leak		
REGULATORY: Best Mgmt Practices (I	ESA): BMP-14	HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:			
Raining?		No	
Precipitation in previ	ous 24 hours		
Frequency		One-time spill	
Constituted a threat	to human healt or the environment?	No	
Immediate response	?	Yes	
Is the structure mapp	ped/inventoried?	Yes	
Investigated within 7	days?	Not applicable	
If suspected illicit con	nnection, investigated within 21 days?	Not applicable	
Final resolution of illi	cit connection within six months?	Not applicable	
How did you learn about the problem?		Other public report	
Source tracing method	od	Visual recon	
Indicator testing		Chloride and fluroride	
Pollutants identified		Sediment / spoil	
Source or cause		Public entity	
Correction and elimin	nation methods	Mitigated by City of Bellevue	
WORK LOG / NOTES:			
Log date:	23-Jun-2016 3:09 pm		
Logged by:	MDOBROTH		
Description:	6/23		
Marked and submitte	ed locates		
Log date:	27-Jun-2016 12:27 pm		
Logged by:	MDOBROTH		
Description:	6/27/2016		
Hung door tags for s	hut down between 8:00AM and 3:00PM on	Wednesday 6/29/2016	
Log date:	30-Jun-2016 8:33 am		
Logged by:	MDOBROTH		

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Jack hammered out 1 side walk panel and dug down to the main with the vactor.

found a crack in the poly where it came out of the corp and took a sharp bend down.

Replaced - Saddle, Corp, ran 1 Inch Copper line to a new 3/4 vertical setter.

We found a concentric power line running just beside the sidewalk panels.

before running copper or getting near the power line we called Puget Sound Energy and they came out and DE Energize the power line so we could safely work near the line.

Rehabbed the area with topsoil and patched the sidewalk.

MN - 66072082

R - 599

Log date: 01-Jul-2016 7:30 am

Logged by: SSTANLEY

Description: Shut down information

Main was off at 8:50am and services were back on at 2:15pm. Flushed for a total 185 minutes from one fire hydrant and blow offs. With an ending residual of 0.80, and total water used of 15,250 gallons.

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Work order number: Date Reported: Description:	636849 June 21, 2016 3:20 pm SLB Water leaking in roady	Status: HOLD Assigned to: RGIBERSON vay (P 6'x6')	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14	HPA Required? DOE Called X Illicit Discharge? NPDES?	d?
SPECIFICATIONS:			
Raining?			
Precipitation in previo	ous 24 hours		
Frequency		One-time spill	
Constituted a threat to	o human healt or the environme	ent? No	
Immediate response?	•	Yes	
Is the structure mapp	ed/inventoried?	Yes	
Investigated within 7	days?	Not applicable	
If suspected illicit con	nection, investigated within 21	days? Not applicable	
Final resolution of illic	cit connection within six months	? Not applicable	
How did you learn ab	out the problem?	Other public report	
Source tracing metho	od	Visual recon	
Indicator testing		Chloride and fluroride	
Pollutants identified		None found	

WORK LOG / NOTES:

Source or cause

Log date: 21-Jun-2016 3:58 pm

Logged by: BTHOMPSON

Correction and elimination methods

Description: Leak

Water is coming up from asphalt at about 2-3gpm half way between 1" meter and water main. Meter is very loud. Market out for locates. Will pass on to Scott and Rick for repair.

Public entity

Mitigated by City of Bellevue

meter 45801194

Log date: 24-Jun-2016 2:03 pm

Logged by: RGIBERSON

Description: 6/23 Previewed job 6/24 Repaired 1" poly service

Shutdown water main from 9am until 1pm. Dug up setter and traced service line. Spoke with James Dunlap, the resident who saw the installation of the geo foam as well as Bruce Blyton (blyton@aesgeo.com) who engineered the fix for the parking lot. Foam is installed under the parking stalls on both side of the road with none in the roadway portion. Opened small hole near where we thought the edge of the foam was over the service line. Found service line and edge of foam, turned water on and found water coming from under foam. Removed 1'x1' piece of foam and found leak under that (see photos). Cut in 1' of 1" copper with 2-1" PEPxPJC's turned on water main and flushed from service at 50gpm for 60 minutes, CL residual 1.13. Backfilled and cold patched road. Patch size 6x6. Rick 337

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Work order number: Date Reported: Description:	636887 June 22, 2016 8:36 am IDDE-Sewer Overflow into S	Status: Assigned to: Storm	DEF : JSIZEMORE	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X DOE Called? X Illicit Discharge? NPDES?	
SPECIFICATIONS:				
Raining?		N	No	_
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	_
Constituted a threat to	human healt or the environme	ent? Y	Yes	
Immediate response?		Y	Yes	_
Is the structure mappe	ed/inventoried?	Υ	Yes	
Investigated within 7 of	days?	Υ	Yes	_
If suspected illicit con	nection, investigated within 21 of	days?	Not applicable	_
Final resolution of illic	it connection within six months?	? N	Not applicable	_
How did you learn abo	out the problem?	S	Staff referral	
Source tracing metho	d	V	Visual recon	_
Indicator testing		V	Visual indicators	_
Pollutants identified		S	Sewage / septage	_
Source or cause		S	SAnitary overflow	_
Correction and eliminate	ation methods	N	Mitigated by City of Bellevue	_

WORK LOG / NOTES:

Log date: 22-Jun-2016 10:19 am

Logged by: JSIZEMORE
Description: Meet on site

Called @ 4:03pm on 6/21/20016 from John Ellman. Responded to crew on site who was working on getting hose to bypass the leak and pump to sewer. Approximately 3 gpm of raw sewage was leaking from broken sewer main into a CE structure that outflows to Kelsey Creek. This was mostly raw water from the Coca Cola Company. Water was filtered through approximately 300ft of gravel road before entering the private drainage system. Called DOE with an ERTs. Tall with Rob Reed. Told to call back when mitigated. Bypass was installed and running at approximately 9:00 pm by COB wastewater crews. Sent email to Colleen Crotty with an update to the ERTS

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Work order number: Date Reported: Description:	637462 June 27, 2016 1:19 pm Paint Spill	Status: Assigned to:	WAUDIT VSCHRODER	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		ı	No	
Precipitation in previo	us 24 hours		0	
Frequency		(One-time spill	
Constituted a threat to	human healt or the environn	nent?	No	
Immediate response?		•	Yes	
Is the structure mapp	ed/inventoried?	•	Yes	
Investigated within 7	days?	I	Not applicable	
If suspected illicit con	nection, investigated within 2	l days?	Not applicable	
Final resolution of illic	it connection within six month	s? I	Not applicable	
How did you learn ab	out the problem?		Staff referral	
Source tracing metho	d	,	Video inspection	
Indicator testing		,	Visual indicators	
Pollutants identified		Ī	Paint	
Source or cause		I	Residential	
Correction and elimin	ation methods		Mitigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 27-Jun-2016 2:33 pm

Logged by: VSCHRODER

Description: Site visit

Went to location and it was a 1 gallon can of white house paint that spilt on to the road. the can of paint was on the side of the road and I brought it back to BSC. I put down some floor dry and tried scrapping up what I could. I wasn't able to do much because by the time I showed up it was dry. Brian from water quality showed up and he also agreed that there wasn't anything else we could do. he drove around the area to try and find the source. I will have the sweeper go first thin in the morning to try and scrape up some more and pick up the rest of the floor dry. I will ask my crew lead on what route we should go on getting the paint of the road if that's what we choose todo. I will attach pictures.

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Work order number: Date Reported: Description:	637483 June 27, 2016 2:43 pm Accident Clean Up	Status: Assigned to:	WAUDIT TROHR	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required?	=
SPECIFICATIONS:				
Raining?		ı	No	
Precipitation in previo	us 24 hours		0	
Frequency		(One-time spill	
Constituted a threat to	human healt or the environme	ent?	No	
Immediate response?)	`	Yes	
Is the structure mappe	ed/inventoried?	•	Yes	
Investigated within 7 of	days?	ı	Not applicable	
If suspected illicit con	nection, investigated within 21	days?	Not applicable	
Final resolution of illic	it connection within six months	? !	Not applicable	
How did you learn abo	out the problem?	(Staff referral	
Source tracing metho	d	1	Visual recon	
Indicator testing		1	Visual indicators	
Pollutants identified		1	Vehicle fluids	
Source or cause		1	Vehicle	
Correction and eliminate	ation methods	ı	Mitigated by City of Bellevu	e

WORK LOG / NOTES:

Log date: 28-Jun-2016 2:47 pm

Logged by: TROHR

Description:

6/27/16 I went to scene and applied 3 bags of floor dry, I then called 811 to sweep up floor dry. No follow up needed.

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Work order number: Date Reported: Description:	637571 June 28, 2016 8:13 am IDDE - Spill - concrete into	Status: Assigned to: strorm drain	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previous	ous 24 hours			
Frequency		C	ne-time spill	
Constituted a threat t	o human healt or the environme	ent?	lo	
Immediate response	?	Y	es	
Is the structure mapp	ped/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit cor	nnection, investigated within 21	days?	lot applicable	
Final resolution of illic	cit connection within six months	? N	lot applicable	
How did you learn ab	oout the problem?	P	ollution hotline	
Source tracing metho	od	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		C	ement / concrete	
Source or cause		C	onstruction	
Correction and elimin	nation methods	N	litigated by responsible part	V

WORK LOG / NOTES:

Log date: 28-Jun-2016 1:41 pm

Logged by: CVANHOOF

Description: Investigation

Went to the site and found small amount of evidence on the pavement (172nd PI SE). There was a new driveway pour ϵ the address and it looks like a small amount of washout happened.

Three Guys Construction (206-243-2364) was the contractor and they showed up onsite during my time there. We discussed what happened, how to clean it up and I give then IDDE notice with an educational flyer.

The clean up is to lightly wash the pavement while they vacuum the discharge and dispose of it properly.

I will follow up tomorrow to make their clean up is appropriate. The weather forecast is for dry so discharge from rain is r a threat.

Pictures and IDDE Form are attached to the work order.

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	Work order number: Date Reported: Description:	637618 June 29, 2016 7:55 am SLB Box full of water, not	Status: Assigned to flooding, meter		ERSON	
	EGULATORY: Best Mgmt Practices (E	SA): BMP-14			HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SF	PECIFICATIONS:					
	Raining?			No		
	Precipitation in previo	us 24 hours				
	Frequency			One-tim	ne spill	
	Constituted a threat to	human healt or the environm	ent?	No		
	Immediate response?			Yes		
	Is the structure mappe	ed/inventoried?		Yes		
	Investigated within 7 of	days?		Not app	olicable	
	If suspected illicit con	nection, investigated within 21	days?	Not app	olicable	
	Final resolution of illic	it connection within six months	?	Not app	olicable	
	How did you learn abo	out the problem?		Other p	ublic report	
	Source tracing metho	d		Visual r	econ	
	Indicator testing			Chlorid	e and fluroride	
	Pollutants identified			None fo	ound	
	Source or cause			Public 6	entity	
	Correction and elimina	ation methods		Mitigate	ed by City of Bellevue	

WORK LOG / NOTES:

Log date: 01-Jul-2016 7:15 am

Logged by: MDOBROTH

Description: 7/1/16

Checked site on 6/30 the setter for house 4614, located in the yard of 4618, seems to be making a lot of noise I listened with the LD7's. dug down to the resetter and to the city side dual purpose and couldn't find any leaks. also talked to the resident of 4816 and informed them of what was going on.

Submitted locates on 7/1

MN - P500192 R - 4663

Log date: 06-Jul-2016 3:34 pm

Logged by: RGIBERSON

Description: Hung tags for Friday 7/8 8:30am-1pm

Log date: 08-Jul-2016 2:59 pm

Logged by: RGIBERSON

Description: Split in 1" poly line

Dug up service found split in poly a couple feet below vertical setter. Crimped line and cut in 2' of 1" copper and installed new 12" setter with 90 MIPxPJC. Backfilled with crushed and small amount of topsoil. Meter #P500192 Read 4070 Rick 337

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HOLD 637667 Work order number: Status: Assigned to: SSTANLEY Date Reported: June 29, 2016 2:29 pm **SLL 2016 Water flowing** Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Visual recon Source tracing method Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 05-Jul-2016 2:52 pm Log date: **SSTANLEY** Logged by: Description: Prepped for job 7/5/16 Loaded parts and made contact with all the businesses that are affected. Shut down will start at 8pm. Set up no parking signs. 30-Jun-2016 7:07 am Log date:

Logged by: BTHOMPSON
Description: Service line leak

1" meter at 13433 NE 20th ST has a leak on 1" poly line. Meter is hissing and the water is coming up about halfway to th main where previous patch is. Water is leaking at about 1 gpm on surface and making its way down the hill and has drainage. Shut down is 10 services, 3 fire hydrants. Marked out and locate request submitted BT 326

Meter:6785523 Read:3082

Log date: 06-Jul-2016 8:40 am

Logged by: SSTANLEY

Description: Replaced service line 7/6/16

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Fish tapped old poly service line and located the saddle on the 8" AC water main. Abandon old saddle and service line. Tapped a new service about 20' south of old tap so the new service line would run straight to the water main. Ran a new 1" copper service line, tied the new service line into the 2' of 1" copper that was at the setter. Water main was off at 8:20 pm and back on at 2:30am. Flushed for 70 minutes at 100gpm ending residual of 0.96.

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Work order number: Date Reported: Description:	637709 June 30, 2016 8:02 am SLB Water valve box is full	Assigned to:	WAUDIT RGIBERSON 637518 (P 7x7 6x6)	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		No	0	
Precipitation in previo	ous 24 hours			
Frequency		Oı	ne-time spill	
Constituted a threat to	o human healt or the environme	nt? No	0	
Immediate response?)	Ye	es	
Is the structure mapp	ed/inventoried?	Ye	es	
Investigated within 7	days?	No	ot applicable	
If suspected illicit con	nection, investigated within 21 of	days? N o	ot applicable	
Final resolution of illic	cit connection within six months?	? No	ot applicable	
How did you learn ab	out the problem?	Ot	ther public report	
Source tracing metho	d	Vi	sual recon	
Indicator testing		CI	nloride and fluroride	
Pollutants identified		No	one found	
Source or cause		Pu	ublic entity	
Correction and elimin	ation methods	M	itigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 14-Jul-2016 7:10 am

Logged by: RGIBERSON

Description: Failed static pressure test, leak on COB side

Turned water off at 9:30am, had to work valve to get dead end stretch off. Once off pressure dropped from 100psi to zero immediately. Left off and after about .5 hour water following FDC line subsided.

Log date: 06-Jul-2016 3:28 pm

Logged by: RGIBERSON

Description: Listened to more services, bagged hydrant OOS

Listened to hydrant and services at nearby church as well as services on West side of Bellevue Way. All were quiet.

Bagged Hydrant OOS and called out for the evening. Rick 337

Log date: 19-Jul-2016 5:02 pm

Logged by: RGIBERSON

Description: Leak detection found a leak

It is on service for irr. meter near hydrant at entrance, which is not on the main that failed the static pressure check. See WO 640884 for repair of that service

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Log date: 02-Aug-2016 1:07 pm

Logged by: RGIBERSON

Description: 7/28 324 out with leak detection-8/2 traced 2" poly service

Inconclusive result from leak detection on stretch of 8" that failed SPT. Water increased on Friday 7/29 and Buck notified me of the increase. Scheduled a shutdown on 8/2 so we could trace out poly line and figure out where it actually ran, setter is backward of the way it should be installed with city side facing E building. On 8/2 we traced out line, it runs parallel to west side of building to the fir tree than turns into parking lot toward water main. We were only able to get fish tape to the edge of the parking stalls before it hit something in the line but service looks to run toward where the other services are tapped, by the mail boxes. Gave tags to Buck to hang for tomorrow 8/3 so we can dig and repair the spot th is loudest in parking lot. Put up no parking signs for work on east side of E building. Service line length approx. 70' of 2" poly. Rick 337

Log date: 03-Aug-2016 3:24 pm

Logged by: RGIBERSON

Description: Repaired split in 2" poly

After pinpointing leak on 8/2 we returned and opened up parking lot and vactored down to service line. Found longituding split in 2" poly on bottom of pipe. Water main shutdown from 9:30am-2pm. Service line depth 7', grade has been raised i area since line was installed. Poly was backfilled with rocks and was slightly egg shaped. Cut out 1" long split and installed a 2" PJIP coupling. Pressure checked, no leaks. Flushed for 30 minutes at 50gpm, CL residual 1.03. Backfilled w/ 5 yards rock and top with .5 yard cold mix. Will return to finish resto. Rick 337

Log date: 19-Aug-2016 12:55 pm

Logged by: **GKNIGHT**

Description: Restoration / See work order 640884

From:Flaherty, Kristen Sent: Tuesday, August 09, 2016 10:38 AMTo: Fockler, Kipp < KFockler@bellevuewa.gov > Cc: Knight, Greg < GKnight@bellevuewa.gov > Subject: RE: Service Break 10400 NE 32nd PL / Work 0640884

Sounds like a plan

I will add Evergreen on to this one as well, just in case we have any issues with the concrete. The last one has been very smooth/easy, but ya just never know.

We will take it from here!

Kristen

Log date: **08-Jul-2016 3:27 pm**

Logged by: RGIBERSON

Description: Tested water in electrical box positive for fluoride

Small amount of water appears to be flowing into electrical box near fire hydrant and irrigation meter. Carefully pulled sample and brought back for testing. Water coming in to box from line that looks like it runs across drive toward E buildin Water tested positive for fluoride

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Log date: 05-Jul-2016 3:44 pm

Logged by: RGIBERSON

Description: Took sample from valve can

Water from FDC line was positive for fluoride. Pumped out valve can for FH120185 and returned to collect sample for fluoride testing. Also jammed FV open in case water was coming from packing. Sample was positive for fluoride

Log date: 07-Jul-2016 3:48 pm

Logged by: RGIBERSON

Description: Shut off irrigation meter for evening, listened w/ SS90's

Water still there after having hydrant off at FV for the evening. Put hydrant BIS and called in. Brought out SS90's to lister to services again but still could not here leak. Shut off irrigation at the meter for the evening. Rick 337

Log date: 11-Jul-2016 3:23 pm

Logged by: RGIBERSON

Description: Gave tags to Buck to hang for static pressure check

Scheduled Wednesday 7/13 9am-3pm

00.1.0040.044

Log date: **30-Jun-2016 3:11 pm**

Logged by: RGIBERSON

Description: Listened to multiple services

Everything seems quiet, which is the same conclusion 326 came to when he did some investigation last time. There is water flowing in power vault near hydrant and service in question. Water could be filling vault from irrigation system and running it throughout area. Called Buck and scheduled an onsite meeting at 10am 7/1. Rick 337

Log date: 01-Jul-2016 3:13 pm

Logged by: RGIBERSON

Description: Met with Buck onsite

Listened to services while water was not being used as well as hydrants in area (120185 and 120210)could not hear any leaks with LD7's or geo phones. Took sample of water back from FDC line for fluoride testing. Rick 337

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Work order number: Date Reported: Description:	639572 July 12, 2016 2:06 pm SLB 2016 Service Line Break	Status: Assigned to: 2331 140th		
REGULATORY: Best Mgmt Practices (E	ESA): BMP-14		HPA Required? DOE Called	1?
SPECIFICATIONS:				
Raining?		l	No	
Precipitation in previo	ous 24 hours			
Frequency		(One-time spill	
Constituted a threat t	o human healt or the environmer	it?	No	
Immediate response?	?	•	Yes	
Is the structure mapp	ed/inventoried?	•	Yes	
Investigated within 7	days?	l	Not applicable	
If suspected illicit con	nnection, investigated within 21 da	ays?	Not applicable	
Final resolution of illic	cit connection within six months?	l	Not applicable	
How did you learn ab	out the problem?	(Other public report	
Source tracing metho	od	1	Visual recon	
Indicator testing			Chloride and fluroride	
Pollutants identified		•	Sediment / spoil	
Source or cause			Public entity	
Correction and elimin	nation methods	I	Mitigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 14-Jul-2016 9:47 am

Logged by: SSTANLEY

Description: Responded to call on 7/12/16

Got on site and there was a crew that had dug a hole and was pumping the water. They thought it was there IRR that wa leaking. Leak is on 1" poly service line.

On 7/13/16 Started at 3:30am to avoid shutting down business during the dinner rush. Found a hole in the poly service liu where it crossed under the private storm line. The service was about 6' deep and there was 2 resetters and a setter so w raised the water service to 2' deep. Installed curb stop at the curb line so we could flush the water main and get the customers back in service. Services were off at 4:20am and back on at 6:30am. Flush was 75gpm for 60 minutes with ending residual of 1.11. Customer stated that they would have their landscapers replace and take care of the sod.

Meter# 99127844

Read 2413

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WAUDIT 639620 Work order number: Status: Assigned to: JHARRISON Date Reported: July 13, 2016 9:25 am WMB 2016 6" AC water flowing up by driveway HOLD FOR RISK Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing None found Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods

WORK LOG / NOTES:

Log date: 20-Jul-2016 1:17 pm

Logged by: **GKNIGHT**Description: **Restoration**

Risk will work with homeowner for repair of driveway (stamped)

Log date: 14-Jul-2016 6:45 am

Logged by: BTHOMPSON
Description: WMB 2016

Responded to water coming up from driveway at 2448 129th Ave SE. Leak was dead center of the apron. We exposed a replaced the saddle for 2448 129th AVE SE while we were there. Repaired circumferential break on 6" AC with repair ba 22 water services, 2 fire hydrants. One meter got skipped when we turned services back on, customer called later that night and his neighbor helped him turn his meter back on. Services were turned off at 11pm and on by 3pm. Flushed at 50GPM 1.25 hours CL2 Res. 1.64.

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Work order number: 639731 Status: HOLD

Date Reported: July 14, 2016 9:35 am Assigned to: SSTANLEY

Description: SLL 2016 (p 5'x5')Water Rising from Pavement #16221321 2" meter

REGULATORY:	HPA Required? DOE Called?
Best Mgmt Practices (ESA): BMP-14	Illicit Discharge? NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 18-Jul-2016 9:24 am

Logged by: SSTANLEY

Description: Responded to call on 7/14/16

Got on site and found about a gallon a minute and a puddle. Made contact with customer and he was going to meet on site. Had Mike locator headed that way to help trace line and locate water lines. Mike took over meeting with customer because we were called out for a break.

Log date: 18-Jul-2016 9:27 am

Logged by: SSTANLEY

Description: Met Tim Wahler on site at 5:00am

Had customer shut down there fire line. We checked for lines on customer side and fire line there looks to be no leaks or customer side. We installed flush on the 2" setter to check to see if the maps were correct while we tried to shut down the 10" valve. Looks like the 2" line is tapped right at the water main and not on the fire line. Sent emails to Dave Nieman of Kemper Development informing of the plan and that we are going to working starting at 7pm on site and blocking that pa of the parking area.

Log date: 21-Jul-2016 6:41 am

Logged by: JHARRISON

Description: 7/20 >

Found a 2.5" galv line. We were able to make a little repair band to stop the pin hole leak.

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Log date: 29-Jul-2016 7:13 am

Logged by: SSTANLEY

Description: Repaired on 7/20/16

Found a pin hole leak in 2.5" galvi line. We made a little repair band. Were able to make the repair live and did not shut down the water main or the service. Patch of 5'x5' asphalt.

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Work order number: Date Reported: Description:	639757 July 14, 2016 10:49 am SLB 2016 Contractor has hi	Status: Assigned to: t water service I		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? DOE Called? Illicit Discharge? NPDES?	
SPECIFICATIONS:				
Raining?		N	No	
Precipitation in previo	us 24 hours			
Frequency		0	One-time spill	
Constituted a threat to	human healt or the environme	nt? N	No	
Immediate response?		Y	Yes	
Is the structure mappe	ed/inventoried?	Ye	Yes	
Investigated within 7 of	days?	N	Not applicable	
If suspected illicit con	nection, investigated within 21 o	days? N o	Not applicable	
Final resolution of illic	it connection within six months'	? N (Not applicable	
How did you learn abo	out the problem?	0	Other public report	
Source tracing metho	d	Vi	Visual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		Se	Sediment / spoil	
Source or cause		Pi	Public entity	
Correction and elimina	ation methods	M	Mitigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 18-Jul-2016 8:20 am

Logged by: SSTANLEY

Description: Responded to call on 7/14/16

Contractor had hit a provisional water service at approx. 2450 Evergreen Pt Rd. It was a 3/4" service that was running to the west. Contractor spent time trying to remove the broken corp from the saddle, and was unable to. Had COB vactor waiting so we could dig and clear around the water main so we could just install new saddle and plug. The old saddle bands were rusted all the way and probably would not have held when we recharged the water main. The contractor had to 5 crew members and two backhoes and 3 dump trucks on site, their down time in total was about an hour. They were able to move past were the line was and keep pulling asphalt. Contractor is Bonner Bros.

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Work order number: Date Reported: Description:	639803 July 14, 2016 6:20 pm SLL 2016 TXT@4:23pmRep	Status: CLOSE Assigned to: BTHOMPSON laced Cust SL City side leaking
REGULATORY: Best Mgmt Practices (Es	SA): BMP-14	HPA Required? DOE Called? X Illicit Discharge? NPDES?
SPECIFICATIONS:		
Raining?		No
Precipitation in previou	us 24 hours	
Frequency		One-time spill
Constituted a threat to	human healt or the environmer	t? No
Immediate response?		Yes
Is the structure mappe	ed/inventoried?	Yes
Investigated within 7 d	lays?	Not applicable
If suspected illicit conr	nection, investigated within 21 d	ays? Not applicable
Final resolution of illici	t connection within six months?	Not applicable
How did you learn abo	out the problem?	Other public report
Source tracing method	d	Visual recon
Indicator testing		Chloride and fluroride
Pollutants identified		Sediment / spoil
Source or cause		Public entity

WORK LOG / NOTES:

Log date: 18-Jul-2016 2:14 pm

Logged by: RGIBERSON

Correction and elimination methods

Description: Replaced service line and setter

Water main off from 9:30am-12. Exposed saddle and line, replaced saddle with new 6" stainless saddle and 1" cc corp. Ran 10' of 1" copper to 1" setter. Hooked to customer line with 1" MIPxPJC and installed existing meter with 2 A24's. Backfilled with 1.5 yards crushed rock. Flushed 50gpm for 75 minutes, CL residual .9. Total gallons 8000 (leak and flush) Meter #99127298 Read 1468.

Mitigated by City of Bellevue

Mr. Goldis was notified when we shut off his water and turned it back on (approx. 1.5 hours)

Log date: 15-Jul-2016 1:43 pm

Logged by: JHARRISON

Description: MR GOLDIS 425 890 1368 called @ 12:52 upset about an

S/O notice for Monday. He works out of his home

16229 ne 3rd And cannot have the water off, he is preparing for an interview later in the day as well and it will not work for him. I informed him we can move to Tuesday **NO** I work out of my home.(Without going into MITN) I suggested to fill bath tub with water so can pan water. I cannot as handicapped etc. Ending of long conversation I informed him I will try and have the crew do as much work as possible before need to shut off water then a crew person will knock on his door before they shut off his meter. We will do what we can as quick as we can and hopefully they can restore his water asap then they can complete their work. Said okay with that

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Work order number: Date Reported: Description:	640131 July 18, 2016 10:13 am SLB 2016 contractor pulled	Status: Assigned to: setter off w/s li	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:			
Raining?		N	No
Precipitation in previo	us 24 hours		
Frequency		C	One-time spill
Constituted a threat to	human healt or the environmen	nt?	No
Immediate response?		Y	Yes
Is the structure mappe	ed/inventoried?	Υ	Yes
Investigated within 7 of	days?	N	Not applicable
If suspected illicit con	nection, investigated within 21 d	ays? N	Not applicable
Final resolution of illic	it connection within six months?	N	Not applicable
How did you learn abo	out the problem?	C	Other public report
Source tracing method	d	V	Visual recon
Indicator testing		C	Chloride and fluroride
Pollutants identified		S	Sediment / spoil
Source or cause		F	Public entity
Correction and elimina	ation methods	N	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 19-Jul-2016 8:28 am

Logged by: SSTANLEY

Description: Responded to call on 7/18/16

Got on site and contractor had hooked the customer side service line and it pulled the setter off of the 1" service of the ci side. Crimped the service line then had to run to shop to pick up parts while contractor dug up and exposed the line. Froz service line and installed a new NL setter and MIP by PJC. Meter was stuck so had to install new water meter with NL A24's. There was some locates at the site and city water was located. Crew on site was Builder Supply, Miguel (425) 622-0858.

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Work order number: Date Reported: Description:	640191 July 18, 2016 2:09 pm Water leak Patch** 17'x5'	Status: Assigned to:	HOLD BTHOMPSON	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA): BMP-14		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?			No	
Precipitation in previo	us 24 hours			
Frequency		(One-time spill	
Constituted a threat to	human healt or the environme	nt?	No	
Immediate response?		,	Yes	
Is the structure mappe	ed/inventoried?	•	Yes	
Investigated within 7 of	days?		Not applicable	
If suspected illicit con	nection, investigated within 21 o	lays?	Not applicable	
Final resolution of illic	it connection within six months?)	Not applicable	
How did you learn abo	out the problem?	(Other public report	
Source tracing metho	d	•	Visual recon	
Indicator testing		(Chloride and fluroride	
Pollutants identified		;	Sediment / spoil	
Source or cause			Public entity	

WORK LOG / NOTES:

Log date: 21-Jul-2016 2:39 pm

Logged by: BTHOMPSON
Description: SLB 2016 Pin hole

Correction and elimination methods

Shut down 3 water meters, using 2 valves at 8 am. Started on top of main to get saddle swapped and get flush started. V then chased the 2" poly line about 10 ft or so to find that it had split where it was previously crimped and pack jointed. We cut out the previous repair and ran 2" copper for about 15 ft to the existing 2" poly. The poly looked like it was in great shape and had thick walls. Service should be good to go from now on. Flushed out of FH for 1.5 hours at 50gpm. CL2 Rewas .64 Services were back on at 10:30am. BT 326

Mitigated by City of Bellevue

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Work order number: Date Reported: Description:	640256 July 19, 2016 12:25 pm SLB 2016 Carlon to be rep	Status: Assigned to: laced	CLOSE BTHOMPSON	
REGULATORY: Best Mgmt Practices (Es	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?				
Precipitation in previous	us 24 hours			
Frequency		O	ne-time spill	
Constituted a threat to	human healt or the environmer	nt? N	lo	
Immediate response?		Υ	es	
Is the structure mappe	ed/inventoried?	Y	es	
Investigated within 7 c	lays?	N	lot applicable	
If suspected illicit conr	nection, investigated within 21 d	ays? N	lot applicable	
Final resolution of illici	t connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	O	Other (see notes)	
Source tracing method	b	V	isual recon	
Indicator testing		C	hloride and fluroride	
Pollutants identified		S	ediment / spoil	

WORK LOG / NOTES:

Source or cause

Log date: 19-Jul-2016 4:54 pm

Logged by: BTHOMPSON

Description: Broken Carolon SL

Correction and elimination methods

Meter reader reported leak at meter box. Found leak at curb stop and when dug it up and went to turn the curb stop carlo snapped at the curb stop. We found water main and shut off corp, jumpered from neighbors meter and will schedule a sh down this week to replace service. BT 326

Public entity

Mitigated by City of Bellevue

X329800 Read:1173

Log date: 26-Jul-2016 10:33 am

Logged by: JHARRISON

Description: 16226 SE 8th St called wanting restored

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Hi Jenelle,

Phone call received 7/25 at 1pm.

Please call:

Paolo Taylor

312-545-6191

: Water service repair that was done at this location and the conditions that were left after the repair was completed.

Thanks

called customer he said his MB is off not set level and he would like it to be corrected

Log date: 22-Jul-2016 2:45 pm

Logged by: BTHOMPSON
Description: Replaced SL

Shut down water main at 10am. Swapped saddle and started flush. Flushed out of FH for 1 hour at 75gpm. Water was back on by 1 pm. Ran 1" copper to 3/4 setter and connected to customer 3/4 copper. Hand dug 14' trench for SL and backfilled with crushed and native on top. BT 326

Log date: 25-Jul-2016 3:07 pm

Logged by: BTHOMPSON

Description: Restoration completed

Went out to spread topsoil, throw down grass seed, and sweep up sediment on curb line. Pulled customers meter and watered the lawn. There was not really grass to begin with but we did seed our trench line and watered. BT 326

Log date: **02-Aug-2016 11:05 am**

Logged by: BTHOMPSON

Description: Neighbors meter box fixed

Neighbors meter box lid was not put back on straight. I corrected the lid and it is good to go. BT 326

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Work order number: 640268 Status: WAUDIT

Date Reported: July 19, 2016 2:00 pm Assigned to: RGIBERSON

Description: AV Water Leak

REGULATORY:	HPA Required?	DOE Called?
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	Yes
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	None found
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 19-Jul-2016 5:00 pm

Logged by: RGIBERSON

Description: Possible packing leaking on shut off air vac valve

Marked for locates, left AV valve off. Didn't want to jam open

Log date: 01-Aug-2016 2:55 pm

Logged by: RGIBERSON

Description: Abandoned Air vac

Dug up and found leak on 2" galvy running to valve for AV. Performed scheduled shutdown from 10am-1pm, and remove AV saddle, corp and valve. Installed new 8"x2" saddle and 2" CC plug. Pressure checked, no leaks. Flushed at 50gpm fc 30 minutes, CL residual .75. Unable to remove standpipe from tree as it had grown around it. MOR and ABC completed. Rick 337

Log date: 04-Aug-2016 2:22 pm

Logged by: RGIBERSON
Description: Finished resto

Brought in small amount of topsoil and cleaned up area. Left standpipe in tree as it could not be removed. Cleaned off trues well. Rick 337

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Work order number: Date Reported: Description:	640308 July 20, 2016 12:57 am SLB TXT@7:25pm 7/19/16 (l	Status: Assigned to: P-10x4)	HOLD RGIBERSON	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA): BMP-14		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	us 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	human healt or the environme	ent? N	0	
Immediate response?		Υ	es	
Is the structure mappe	ed/inventoried?	Υ	es	
Investigated within 7 of	days?	N	ot applicable	
If suspected illicit con	nection, investigated within 21 of	days? N	ot applicable	
Final resolution of illic	it connection within six months'	? N	ot applicable	
How did you learn abo	out the problem?	0	ther public report	
Source tracing metho	d	V	isual recon	
Indicator testing		С	hloride and fluroride	
Pollutants identified		S	ediment / spoil	
Source or cause		Р	ublic entity	

WORK LOG / NOTES:

Log date: 20-Jul-2016 1:01 am

Logged by: RGIBERSON

Correction and elimination methods

Description: Broken saddle on 6" AC Ticket #16227206

Caller stated lots of water coming up in street arrived onsite at about 7:50 to about 100gpm coming out several feet soutl of hydrant and dual service. Called in crew and throttled main and began notifying customers of the shutdown. Shutdowr water main at approx. 8:30pm, 9 services affected. Jackhammered sidewalk and dug down where most of the water was surfacing. Found 1" Corp stop blown out and saddle popped off the main. Shored hole and installed new saddle and corp and hooked to existing line with 1" PJC. Pressure checked, no leaks. Flushed at 50gpm, both directions for 50 minutes total. Also flushed both setters on dual service. CL residual .59, services restored at 12:30am. Water quality was notified by Travis from storm standby. T.O.M. 4.5'. Backfilled with crushed all the way to side walk level. Sidewalk will need cold mix and the concrete needs to be picked up. Area is coned off and sidewalk is passable. Meter #45800695 R-144 Rick 337

Mitigated by City of Bellevue

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Work order number: Date Reported: Description:	640323 July 20, 2016 7:23 am SWQ -lillicit Discharge @ 1	Status: Assigned to: 402 179th Ave I		O EMORE	
REGULATORY:				HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):			X Illicit Discharge?	NPDES?
SPECIFICATIONS:					
Raining?		I	No		
Precipitation in previo	us 24 hours				
Frequency			One-tim	ne spill	
Constituted a threat to	human healt or the environme	ent?	Yes		
Immediate response?		•	Yes		
Is the structure mappe	ed/inventoried?	•	Yes		
Investigated within 7 of	days?	•	Yes		
If suspected illicit con	nection, investigated within 21	days? I	Not app	licable	
Final resolution of illic	it connection within six months	? I	Not app	licable	
How did you learn abo	out the problem?	;	Staff re	ferral	
Source tracing metho	d	1	Visual r	econ	
Indicator testing		1	Visual i	ndicators	
Pollutants identified			Other (s	see notes)	
Source or cause			Public e	entity	

WORK LOG / NOTES:

Log date: 20-Jul-2016 7:35 am

Logged by: JSIZEMORE

Correction and elimination methods

Description: Contact from storm standby

Received call @ 8:50 pm from Travis Pilland about a main break. Water going into catch basin @ approx. 100 gpm. The was no sediment entering the system. Estimated 18,000 gallons entered the MS4. Did not get received into waters of the state. Will call DOE for ERTS.

Mitigated by City of Bellevue

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CLOSE 640369 Work order number: Status: Date Reported: July 20, 2016 6:47 pm Assigned to: RGIBERSON SLB Loc #16229257 TXT@5:13pm 7/20/16 6331 (P) Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable

Other public report

Chloride and fluroride

Mitigated by City of Bellevue

Visual recon

Public entity

Sediment / spoil

WORK LOG / NOTES:

Indicator testing

Pollutants identified Source or cause

Source tracing method

12-Oct-2016 8:25 am Log date:

GKNIGHT Logged by: Restoration Description:

Correction and elimination methods

How did you learn about the problem?

Restoration work completed. Inspected 10/11/16, Invoices 81453 & 81457

Log date: 22-Jul-2016 2:40 pm

RGIBERSON Logged by:

Leak on service, saddle replaced and jumpered Description:

This is a longside service with the leak somewhere in the middle. Replaced all 4 saddles and jumpered this service from neighboring line. These 2 lines will need to be replaced. Water main off from 10am-2pm, flushed 50gpm for 45 minutes. residual 1.31. Meter # R- Rick 337

Log date: 21-Jul-2016 7:03 am

Logged by: **JHARRISON**

Description: Leak crew will hand tags for short notice 7/22

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Log date: 29-Jul-2016 3:56 pm

Logged by: RGIBERSON

Description: Ran new service

Dug up water main and setters and ran cable through existing poly line. Pulled new 1" copper service and hooked to previously installed saddle and new 3/4" setter. Copper was damaged as we pulled it with the last several feet getting hu up on this pull. Opened up more of the road and chased back to good copper, several large rocks had damaged copper while pulling with trackhoe. Installed new copper with 1" PJC and ran to new saddle. Damaged copper spread over both WO's. Service line length 65'.

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Work order number: Date Reported: Description:	640412 July 21, 2016 9:23 am White paint spilled in roadwa	Status: Assigned to:	WAUDIT VSCHRODER	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (ES	SA):		Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previou	us 24 hours	C)	
Frequency		O	ne-time spill	
Constituted a threat to	human healt or the environmen	t? N	lo	
Immediate response?		Y	es	
Is the structure mappe	ed/inventoried?	Y	es	
Investigated within 7 d	lays?	N	lot applicable	
If suspected illicit conn	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illici	t connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	S	taff referral	
Source tracing method	1	V	isual recon	
Indicator testing		٧	isual indicators	
Pollutants identified		Р	aint	

WORK LOG / NOTES:

Source or cause

Log date: 21-Jul-2016 2:15 pm

Logged by: VSCHRODER

Correction and elimination methods

Description: Responded to paint spill on bel-red rd just west of northup way

I put down 3 bags of floor dry and scooped up some wet paint. Water quality came out and was trying to find where it came from. The paint didn't get into any structures. I called for a sweeper (821) to come by and clean up all the floor dry.

Source not identified

Mitigated by City of Bellevue

Log date: 25-Jul-2016 3:08 pm

Logged by: LPASIN

Description: On 7/21/16, 821 responded and swept up floor dry from clean up effort.

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Work order number: Date Reported: Description:	640766 July 25, 2016 11:40 am SLB 2016	Status: Assigned to: (p 5'x5')	HOLD GKNIGHT		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14			HPA Required?	DOE Called?
SPECIFICATIONS:					
Raining?			No		
Precipitation in previo	us 24 hours				
Frequency		(One-time sp	ill	
Constituted a threat to	human healt or the environr	nent?	No		
Immediate response?		,	Yes		
Is the structure mappe	ed/inventoried?	,	Yes		
Investigated within 7 d	days?		Not applicab	le	
If suspected illicit con	nection, investigated within 2	1 days?	Not applicab	le	
Final resolution of illic	it connection within six month	ıs?	Not applicab	le	
How did you learn abo	out the problem?	(Other public	report	
Source tracing method	d	,	Visual recon		
Indicator testing			Chloride and	l fluroride	
Pollutants identified			Sediment / s	poil	
Source or cause			Public entity		

WORK LOG / NOTES:

Log date: 26-Jul-2016 7:30 am

Logged by: SSTANLEY

Correction and elimination methods

Description: Responded to call on 7/25/16

Got on site and found about 20 gpm of water flowing down the road. Made contact with customers and shut down the was services. Services were off at 1pm on at 4pm. Did not shut the water main off so no flushing. Cut in at 1' of 1" copper. Flushed service line at the setter and flushed customers hose bib.

Mitigated by City of Bellevue

Meter# 45476098

Read 1005

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Work order number: Date Reported: Description:	640821 July 26, 2016 5:14 am SLB TXT@2:56am 7/26/16 L	Status: Assigned to: EAK 75gpm Tic	WAUDIT RGIBERSON ket #16234247	
REGULATORY: Best Mgmt Practices (I	ESA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previ	ous 24 hours			
Frequency		O	One-time spill	
Constituted a threat	to human healt or the environme	nt? N	lo	
Immediate response	?	Υ	'es	
Is the structure map	ped/inventoried?	Υ	'es	
Investigated within 7	days?	N	lot applicable	
If suspected illicit con	nnection, investigated within 21 c	lays? N	lot applicable	
Final resolution of illi	cit connection within six months?	N	lot applicable	
How did you learn al	oout the problem?	O	Other public report	
Source tracing meth	od	V	isual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		S	Sediment / spoil	
Source or cause		Р	Public entity	

WORK LOG / NOTES:

Log date: 02-Aug-2016 5:17 am

Logged by: RHOLLAND

Correction and elimination methods

Description: Clean up road and storm catch basins

On 8-1-2016 (630&lamont) used #3618 to clean SE 8th from 160th to approximately 16210 om Se 8th. Then cleaned 16 from sE 8th to 607 160th ave Se. also cleaned all basins on Se 8th on north side from 160th to 16210 SE 8th. Total time 11:00 to 12:20 am.

Mitigated by City of Bellevue

Log date: 26-Jul-2016 6:53 am

Logged by: RGIBERSON

Description: Break on carlon, replaced short side service

Arrived on site at 3:30am, water coming up in yard near water main at about 75gpm. Isolated main and throttled, called in crew. Dug down and shut off corp to stop leak and trenched to setter. Prepped new saddle and pulled off old saddle and quickly swapped while main was still on. Ran copper from corp to setter and hooked to existing customer line. Estimated water loss 18000 gallons.

Log date: 01-Aug-2016 2:52 pm

Logged by: MDOBROTH

Description: Completed 7/28

Finished Restoration set the meter box and a resetter. spread some grass seed in the topsoil.

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Work order number: 640884 Status: WAUDIT

Date Reported: July 26, 2016 3:32 pm Assigned to: RGIBERSON

Description: SLB Leaking water service Ridge condos (P 12x5)

REGULATORY:	HPA Required? DOE Called?	
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge? NPDES?	

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	None found
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 26-Jul-2016 4:06 pm

Logged by: RGIBERSON

Description: Leak on 1" poly service, replaced line

Opened up stamped concrete section of drive and dug with Vactor down to direct tap corp. Shut off service at corp and renew trench over to existing 1" setter. Shutdown includes entire complex so we did not install a saddle, instead we installe 1' of new 1" poly with stiffeners into existing corp and attached it to a new 1" copper line running to the setter with a PJCxPJIP coupler. Installed new setter. Existing setter was very deep as grade had changed in the past and 2-1" resette had been added (see attached pictures) one of the resetters had been illegally tapped into to run water for presumably the pool house and the galvanized was leaking. I explained the situation to Buck as well as the property manager, by phone. We installed a new setter and hooked it to the customer side of the resetter, thereby bequeathing it to the Ridge. I also asked that they have their plumber come out and replace the galvy, which we repaired with a repair clamp. Meter # Reac

Log date: 09-Aug-2016 9:55 am

Logged by: **GKNIGHT**

Description: Hard surface restoration

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From:Flaherty, Kristen Sent: Tuesday, August 09, 2016 10:38 AMTo: Fockler, Kipp < KFockler@bellevuewa.gov > Cc: Knight, Greg < GKnight@bellevuewa.gov > Subject: RE: Service Break 10400 NE 32nd PL / Work (640884 Sounds like a plan. I will add Evergreen on to this one as well, just in case we have any issues with the concrete. The last one has been very smooth/easy, but ya just never know.

We will take it from here!

Kristen

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Work order number: Date Reported: Description:	640993 July 27, 2016 3:27 pm IDDE - Structure Fire with w	Status: Assigned to: vater run off	COMP CVANHOOF		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?	
SPECIFICATIONS:					
Raining?			No		
Precipitation in previo	us 24 hours				
Frequency		0	One-time spill		
Constituted a threat to human healt or the environment?		ent? N	No		
Immediate response?		Y	Yes		
Is the structure mapped/inventoried?		Y	Yes		
Investigated within 7 days?			Yes		
If suspected illicit connection, investigated within 21 days?		days? N	Not applicable		
Final resolution of illicit connection within six months?		? N	Not applicable		
How did you learn about the problem?		0	Other agency referral		
Source tracing method		V	Visual recon		
Indicator testing		V	Visual indicators		
Pollutants identified		Α	Allowable discharge		
Source or cause		P	ublic entity		
Correction and elimination methods			lo action needed		

WORK LOG / NOTES:

28-Jul-2016 6:46 am Log date:

CVANHOOF Logged by:

Description: **Response and Invetigation**

Bellevue Fire called in a house and reported using water/foam that discharged onto the street. At arrival, small volume c water was entering the City catch basin and flowing through the system. I trace/tracked the discharge to its daylight poin on NE 40th Place. The system then turns into an unamed stream until it discharges into Lake Sammamish. The stream is roughly 600 plus feet long with vegetation and slow flow in spots before entering the lake.

I left a business card with Bellevue Fire and currently waiting for volume of discharge.

There was not any visual impact to the creek with turbidity and foam.

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Work order number: Date Reported: Description:	641017 July 28, 2016 8:53 am By-Pass set up has been hi	Status: Assigned to: t and spewing v			
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? DOE Calle	ed?	
SPECIFICATIONS:					
Raining?			No		
Precipitation in previous 24 hours			0		
Frequency			One-time spill		
Constituted a threat to human healt or the environment?		ent?	No		
Immediate response?			Yes		
Is the structure mapped/inventoried?			No		
Investigated within 7 days?			Yes		
If suspected illicit connection, investigated within 21 days?			Not applicable		
Final resolution of illicit connection within six months?			Not applicable		
How did you learn about the problem?			Other (see notes)		
Source tracing method			Visual recon		
Indicator testing		V	Visual indicators		
Pollutants identified		S	Sewage / septage		
Source or cause			Public entity		
Correction and elimination methods			Mitigated by City of Bellevue		

WORK LOG / NOTES:

Log date: 01-Aug-2016 6:50 am

Logged by: CEMRY

Description: Bypass Piping for Midlakes Ran over By Storm Dept.

Upon arrival, I could tell by the damage to the HDPE bypass piping, that I would need a whole new section of HDPE. We to station and ran the bypass pump until well was empty, then shut the pump completely down. Went up to bad section in piping (SW corner of bel-red Storage @ double gates), pulled the couplings and replaced pipe. All seems to be good now and no leaks. Talk to Paul Armstrong from storm, and he stated that one of their temporary workers was trying to turn around and backed into the piping which broke it.

Spent the remainder of the day cleaning the surface area of sewage, and storm structures. All was reported to Chris Vanhoof from water quality.

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Work order number: Date Reported: Description:	641061 July 28, 2016 9:27 am IDDE - By-Pass set up has	Status: Assigned to: been hit and spe	COMP CVANHOOF wing water		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?	
SPECIFICATIONS:					
Raining?			No		
Precipitation in previo	us 24 hours				
Frequency			One-time spill		
Constituted a threat to human healt or the environment?		ent? Y	Yes		
Immediate response?		Υ	Yes		
Is the structure mapped/inventoried?		Y	Yes		
Investigated within 7	days?	Y	es		
If suspected illicit connection, investigated within 21 days?			ot applicable		
Final resolution of illicit connection within six months?		? N	ot applicable		
How did you learn about the problem?			taff referral		
Source tracing method		V	isual recon		
Indicator testing		V	isual indicators		
Pollutants identified		S	ewage / septage		
Source or cause		Р	ublic entity		
Correction and elimination methods		N	litigated by City of Bellevue		

WORK LOG / NOTES:

Log date: 01-Aug-2016 6:11 am

Logged by: CVANHOOF

Description: Follow up

Clean up looked good and sewer installed a second pump in case something happens to the primary pump. The bypass is also fixed and the private system that was affected at Bellevue Storage has been cleaned.

Log date: 29-Jul-2016 6:44 am

Logged by: CVANHOOF

Description: Response and clean up

A COB staff member hit the bypass line at Midlakes Pump Station causing a break in the line. When the pump cycled or it created a discharge on the pavement at Bellevue Storage (1405 130th Ave NE). Paul Armstrong was onsite and called the discharge in immediately. Clint Emry responded and fixed the piece of pipe with a new one. Sewer also found a leal in another pipe downstream from the incident and also had to replace that piece. Estimated 2,400 gallons was discharge into the private catch basin at Bellevue Storage, which also flowed into another private manhole and then into their biofiltration swale. COB Sewer cleaned the 2 structures removing all water and debris. No discharge made it out of the swale which would have flowed into West Tributary.

DOE was notified and ERTS 666547 was created. Reports and pictures are attached to this work order.

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641062 **CLOSE** Work order number: Status: Assigned to: SSTANLEY Date Reported: July 28, 2016 3:20 pm SLL 2016 Water leaking on COB side of meter Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing

WORK LOG / NOTES:

Pollutants identified
Source or cause

Log date: 29-Jul-2016 1:19 pm

Logged by: SSTANLEY

Correction and elimination methods

Description: Responded to call on 7/29/16

Found a very small pin hole leak on the city side of the setter. Was able to place a hose clamp and gasket on it to stop the leak. Will need to replace the setter. 7" vert setter with poly on both the city and customer side.

Sediment / spoil

Mitigated by City of Bellevue

Public entity

Meter# 8645489

Read 4701

Log date: 15-Aug-2016 7:27 am

Logged by: SSTANLEY

Description: Replaced setter on 8/10/16

Shut down water main for 1 hour and flushed for 30 minutes at 50gpm with ending residual of 0.89. Removed 3/4" setter and installed new setter and MIP x PJPE. Flushed service line and checked for leaks. Back filled with native.

Meter# 8645489

Read 4701

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	•			
Work order number: Date Reported: Description:	641117 July 27, 2016 8:54 pm IDDE - Sewer Issue	Ctatao.	COMP CVANHOOF	
REGULATORY:			HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		No)	
Precipitation in previo	us 24 hours			
Frequency		Int	termittent	
Constituted a threat to	human healt or the environm	ent? Ye	es	
Immediate response?		Ye	es	
Is the structure mapp	ed/inventoried?	Υe	es	
Investigated within 7	days?	Ye	es	
If suspected illicit con	nection, investigated within 21	days? No	ot applicable	
Final resolution of illic	it connection within six months	s? No	ot applicable	
How did you learn ab	out the problem?	Ot	ther public report	
Source tracing metho	d	Vi	sual recon	
Indicator testing		Vi	sual indicators	
Pollutants identified		Se	ewage / septage	
Source or cause		Re	esidential	

WORK LOG / NOTES:

Log date: 01-Aug-2016 3:03 pm

Logged by: CEMRY
Description: Looked into

Correction and elimination methods

I got a complaint about a septic venting issue causing odor from a customer. I told him that we would not be the responsible party to take care of an issue like this, so I told him to call king county or department of ecology. He called back stating that we were passing the buck. He also could not get ahold of anyone to talk to at either place. So I went ou to take a look just to make sure it was nothing of ours and actually see what he is complaining about. No answer at the door of 4411, but you could definitely smell an odor. I did some walking around and found the septic tank lid to 4411 overflowing and going into the ditch. I have informed our Water Quality folks of the matter, so they can find the responsib authority to contact and report overflow to Department of Ecology.

Enforcement - Written warning

Log date: 02-Aug-2016 12:40 pm

Logged by: CVANHOOF

Description: IDDE response

Clint had me look into this service request and it was found that the discharge from the septic tank did make it into the ditch. I left an IDDE form and educational flyer for the homeowner asking them to have the system inspected and/or cleaned for proper operation by next Friday (8/12/2016).

I also called in an ERTS (666651) for the discharge into the ditch.

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Log date: 24-Aug-2016 6:10 am

Logged by: CVANHOOF

Description: Repair

The septic system has been repaired. The fuse on the pump had gone out, the tank was cleaned out, the system was inspected and repaired. I check the site again and the area was dry with no discharge.

Log date: 10-Aug-2016 6:49 am

Logged by: CVANHOOF

Description: Follow up

Stopped by the house yesterday and found the homeowner outside looking at the septic system. I talked with him and h has a call into the company that designed it. They will be out next week to take a look and figure out the problem. The home is under one year old so something in the system is failing to not the allow the pump to work.

I asked him to give me updates as they work through diagnosing the problem.

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Work order nur Date Reported: Description:	August 5, 2016 12:01 p		PPR BIZEMORE main break	
REGULATORY: Best Mgmt Practi	ices (ESA):		HPA Required? X Illicit Discharge?	X DOE Called? X NPDES?
SPECIFICATIONS	:			
Raining?		No		
Precipitation in	previous 24 hours			
Frequency		One-	time spill	
Constituted a th	nreat to human healt or the environ	onment? Yes		
Immediate resp	oonse?	Yes		
Is the structure	mapped/inventoried?	Yes		
Investigated wi	thin 7 days?	Yes		
If suspected illie	cit connection, investigated withir	n 21 days?		
Final resolution	of illicit connection within six mo	nths?		
How did you lea	arn about the problem?	Staff	referral	
Source tracing	method	Visu	al recon	
Indicator testing	g	Chlo	ride and fluroride	
Pollutants ident	tified	Othe	er (see notes)	
Source or caus	е	Publ	ic entity	
Correction and	elimination methods	Add	or improve source contro	ol BMP

WORK LOG / NOTES:

Log date: **05-Aug-2016 1:41 pm**

Logged by: JSIZEMORE
Description: Field Check

Received call from Shas Carr. Water leaking into storm drain at referenced address. Mike Hoel was on site. Meter gasket was leaking at approximately 200 gpm. Mike throttled it down to about 150 gpm. Water crew showed about 15 minutes later and put out de-chlor pucks. Called in ERTs to DOE. Indicated approximately 12,000 galllons of chlorinated water entered the MS4.

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CLOSE Work order number: 641878 Status: Assigned to: SSTANLEY Date Reported: August 9, 2016 1:41 pm SLB 2016 Leak Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill Constituted a threat to human healt or the environment? No Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable

Other public report

Chloride and fluroride

Mitigated by City of Bellevue

Visual recon

Public entity

Sediment / spoil

WORK LOG / NOTES:

Indicator testing
Pollutants identified

Source or cause

Source tracing method

Log date: 10-Aug-2016 2:09 pm

Logged by: BTHOMPSON

Correction and elimination methods

How did you learn about the problem?

Description: Service replacement/Broken Carlon

Replaced broken carlon SL with 1" copper to 3/4 setter with new box. Flushed out of 1 service on 159th PL, and 1 fire hydrants from both west and east valves. All services were off by 2:30pm and back on at 5:10pm.

CL2 Res from west valve .80 CL2 Res from east valve .67

CI2 Res from service on 159th PL .80

BT 326

2/27/2017 Page 149 of 23

Work order number: Date Reported: Description:	641904 August 9, 2016 9:49 pm SLB 2016 TXT@ 8:33pm Le	Status: Assigned to: ak on W Lake S	CLOSE BTHOMPSON ammamish PKY SE	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	us 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	human healt or the environme	nt? N	0	
Immediate response?		Y	es	
Is the structure mapp	ed/inventoried?	Υ	es	
Investigated within 7	days?	N	ot applicable	
If suspected illicit con	nection, investigated within 21 c	lays? N	ot applicable	
Final resolution of illic	it connection within six months?	N	ot applicable	
How did you learn ab	out the problem?	0	ther public report	
Source tracing metho	d	V	isual recon	
Indicator testing		С	hloride and fluroride	
Pollutants identified		S	ediment / spoil	
Source or cause		Р	ublic entity	
Correction and elimin	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

10-Aug-2016 1:58 pm Log date:

BTHOMPSON Logged by:

Description: Service repair 2016

Split on poly service line right out of corp. Cut in 3ft of 1" poly and used existing corp with new compression gasket. Backfilled and restored today. BT 326

Meter: 71564779 Read: 582

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Work order number: 642464 Status: APPR
Date Reported: August 15, 2016 8:07 am Assigned to: CEMRY

Description: Sewer is leaking/backing up at this time

REGULATORY:	HPA Required?	X DOE Called?
Best Mgmt Practices (ESA):	X Illicit Discharge?	NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	0
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Yes
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Visual indicators
Pollutants identified	Sewage / septage
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 22-Aug-2016 5:44 am

Logged by: MEVANS

Description: Blockage cleared 300-400 ft downstream of 7525 cleanout

Log date: 22-Aug-2016 5:45 am

Logged by: MEVANS

Description: Notified property owners at 7525 and 7530

Told them about 150 gallons of sewage went into the lake during maintenance activities. Gave them Michael May's card and the 7840 BSC number for water quality if they had questions.

Log date: 15-Aug-2016 2:39 pm

Logged by: CEMRY

Description: Looks to be a blockage in the lakeline

Homeowner showed me the COTG on her property in the NW corner near the lake. Showed signs of a recent overflow, It did not overflow while we were there. I called flush 3 and turned the North pump to hand, water immediately started to ris in the cleanout. Shut the pump down and called in a jet crew. The crew accessed a lakeline cleanout underneath 520 bridge (193932). From there, the crew was able to partially relieve the blockage. Before any work was done, there was standing water 1.5 from ground surface, in the cleanout. Now the water has receded all the way down the cleanout to the point you can no longer see it. M. Evans ran the flush station again, and it took roughly 7 min for wastewater to climb bac up the cleanout. So we will go out tomorrow and jet again. In the meantime, Flush 3 is off.

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Log date: 17-Aug-2016 3:09 pm

Logged by: MEVANS

Description: After jetting south from CO under 520

The water went down in the customer's CO. but when we turned the flush on, it came up within 5 minutes

Log date: 17-Aug-2016 3:10 pm

Logged by: MEVANS

Description: Checked CO again. Flush has been off

While we deal with a lakeline issue at Clyde Beach Park. I checked the CO today and turned the flush on. I saw no water in the CO when I started, and after 2 minutes, I had to turn the flush off, or risk another overflow. This will need further attention

Log date: **16-Aug-2016 6:05 am**

Logged by: CVANHOOF

Description: Reporting

SSO was called into DOE and an ERTS report 666936 was created. The report is attached to the work order.

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Work order number: Date Reported: Description:	642505 August 15, 2016 2:17 pm IDDE - FOG and Dumpster w	Status: Assigned to: vater in private		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	No	
Precipitation in previo	us 24 hours			
Frequency		I	ntermittent	
Constituted a threat to	human healt or the environmen	nt?)	/es	
Immediate response?		``	res es	
Is the structure mappe	ed/inventoried?	١	/es	
Investigated within 7	days?	١	/es	
If suspected illicit con	nection, investigated within 21 d	ays? N	Not applicable	
Final resolution of illic	it connection within six months?	P	Not applicable	
How did you learn abo	out the problem?	E	Business inspection	
Source tracing metho	d	\	/isual recon	
Indicator testing		\	/isual indicators	
Pollutants identified		F	Food waste / oil	
Source or cause		(Commercial - Retail	
Correction and elimina	ation methods	N	ditigated by responsible party	/

WORK LOG / NOTES:

Log date: 07-Oct-2016 1:01 pm

Logged by: CVANHOOF

Description: Response

During the PDI, grease was found to be in the private storm system from the dumpster area. Catchall Environmental wa hired to clean the system. The system was clean at the reinspection.

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Work order number: Date Reported: Description:	642518 August 15, 2016 2:47 pm IDDE - FOG and dumpster w	Status: Assigned to:	COMP CVANHOOF storm system	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	us 24 hours			
Frequency		Ir	ntermittent	
Constituted a threat to	human healt or the environme	nt? Y	es	
Immediate response?		Y	es	
Is the structure mapp	ed/inventoried?	Υ	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21 d	ays? N	ot applicable	
Final resolution of illic	it connection within six months?	N	ot applicable	
How did you learn ab	out the problem?	В	usiness inspection	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		F	ood waste / oil	
Source or cause		С	ommercial - Retail	
Correction and elimin	ation methods	N	litigated by responsible part	V

WORK LOG / NOTES:

Log date: 11-Jan-2017 6:39 am

Logged by: CVANHOOF

Description: Completed maintenance

The cleaning was performed by Olson Brothers/Pro Vac on 10/14/2016. A signed maintenance notification form is attached to the PDI in NDPES Pro. The Drainage System for that site is 927.

Log date: 07-Nov-2016 10:40 am

Logged by: CVANHOOF

Description: Investigation

This discharge was found during PDI and the property was notified. Waiting for response to maintenance and reinspection of system.

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Work order number: 642763 Status: HOLD

Date Reported: August 18, 2016 11:24 am Assigned to: SSTANLEY

Description: SLL 2016 (P 2'x3')	
REGULATORY: Best Mgmt Practices (ESA): BMP-14	HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:	
Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment	ment? No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 2	1 days? Not applicable

Not applicable
Other public report

Visual recon

Public entity

Sediment / spoil

Chloride and fluroride

Mitigated by City of Bellevue

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Source tracing method

Log date: 31-Aug-2016 7:22 am

Logged by: SSTANLEY

Correction and elimination methods

How did you learn about the problem?

Description: Responded to call on 8/18/16

Final resolution of illicit connection within six months?

There was a small wet spot in the road. Could not hear any leaks on the water services or the hydrant. made contact witl Ryan from parks and he stated that the wet spot had been there for 3 to 4 weeks. He had shut down the irrigation to the park for 2 days to make sure that they didn't have a leak on the system. He stated that there was more water flowing in the morning. Met with Ryan on 8/19/16 in the am to try and get a water sample.

Log date: 31-Aug-2016 7:25 am

Logged by: SSTANLEY

Description: Met on 8/19/16

Was able to get enough of a sample and it was positive for fluoride. Marked area for locates. Checked the 1.5" meter that has a manifold with 3 1" lines feeding the meter. The customer at 9815 Ne 23 St didn't even know that there was a meter there. Home owner stated that he did not want the meter and was not going to use it. There was a 0 read on the meter.

Log date: 31-Aug-2016 7:29 am

Logged by: SSTANLEY

Description: 8/24/16 hung tags and checked locates

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Log date: 31-Aug-2016 7:29 am

Logged by: SSTANLEY

Description: Abandoned water service on 8/29/16

6" AC water main sat underneath a brick wall at the park, made contact with Ryan from Parks and he stated that they would put the wall back together for us. Found 3 1" blue brut lines and 3 brass saddles. The water main was about 8' degreen Found a leak on one line at the corp. Removed service lines and plugged the corps, and capped off the service lines. We removed the water meter and meter box. Water was off at 9am and back on at 1pm. Flushed for 60 minutes at 100gpm, with ending residual of 0.77.

Log date: 02-Sep-2016 3:08 pm

Logged by: JHARRISON

Description: Abandoned water service; DECOMMISSION meter 1.5" 57466411

Read o

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Work order number: Date Reported: Description:	642868 August 19, 2016 9:30 am SWQ @ 9840 SE Shoreland	Assigned to:	APPR ASHEHAB orm drain at this time	
REGULATORY:			HPA Require	ed? X DOE Called?
Best Mgmt Practices (ES	SA): BMP-2		X Illicit Dischar	rge? NPDES?
SPECIFICATIONS:				
Raining?		No	0	
Precipitation in previou	us 24 hours			
Frequency		Oı	ne-time spill	
Constituted a threat to	human healt or the environmen	nt? No	0	
Immediate response?		Ye	es	
Is the structure mappe	ed/inventoried?	Ye	es	
Investigated within 7 d	lays?	Ye	es	
If suspected illicit conr	nection, investigated within 21 d	ays?		
Final resolution of illici	it connection within six months?	Ye	es es	
How did you learn abo	out the problem?	Ot	ther public report	
Source tracing method	b	Vi	sual recon	
Indicator testing				
Pollutants identified		Pa	aint	

WORK LOG / NOTES:

Source or cause

Log date: 19-Aug-2016 12:22 pm

Logged by: ASHEHAB

Correction and elimination methods

Description: 614 & 634 responed to IDDE entering Lake WA.

Cloudy discharge entering from PE 333598 between 9840 & 9900 SE Shoreland Dr. Chased discharge up stream and found last CB with what looks to be some sort of paint in it was 364743. After looking around the backyard of 9817 SE Shoreland Dr, we found what looked to be like paint or sheetrock mud being washed out in and around a French Drain / Drain Rock area. Spoke with contractor onsite and he contacted his boss (Mike @ 425-761-1028). We explained the situation and asked him to have a Vactor clean 3 structures and the connecting pipes. He agreed. We also asked him to educate his painters and other crew that washing out in that area would produce the same results. He will have a Vactor out to clean today and I will return to inspect.

Construction

Education / technical assistance

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Work order number: Date Reported: Description:	642879 August 19, 2016 11:12 am SWQ @ 7530 NE 28th PL Lak	Status: Assigned to ce water safet			
REGULATORY:				HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):			X Illicit Discharge?	NPDES?
SPECIFICATIONS:					
Raining?			No		
Precipitation in previous	us 24 hours				
Frequency			One-time	spill	
Constituted a threat to	human healt or the environmer	nt?	Yes		
Immediate response?			Yes		
Is the structure mappe	ed/inventoried?		Yes		
Investigated within 7 c	days?		Yes		
If suspected illicit conr	nection, investigated within 21 d	ays?	No (see r	notes)	
Final resolution of illici	it connection within six months?				
How did you learn abo	out the problem?		Staff refe	rral	
Source tracing method	d		Visual re	con	
Indicator testing			Not used		
Pollutants identified			Sewage /	septage	
Source or cause			Public en	ntity	
Correction and elimina	ation methods		No action	n needed	

WORK LOG / NOTES:

Log date: 19-Aug-2016 1:26 pm

Logged by: JSIZEMORE

Description: Wastewater Crew Contact

Spoke with Mike Evans. He stated that approximately 150 gallons of sewage spilled into Lake Washington while there were preforming maintenance on a blockage at 7525 NE 28th PI. Wastewater was mixed with rodder truck water and was clear. I called in an ERTS. Mike also spoke with the customer @ 7530 to inform her of the spill and what had occurred. He said she was concerned and would possible call in to WQ for more information.

Log date: 19-Aug-2016 1:30 pm

Logged by: JSIZEMORE

Description: Forward To Nate Dickey

After speaking with Don McQuilliams. We felt it would be best for Nate Dickey to give the customer a call since he had more information.

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CLOSE 643317 Work order number: Status: **SSTANLEY** Date Reported: August 22, 2016 8:33 am Assigned to: SLL 2016 Water leak at the meter Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified

WORK LOG / NOTES:

Source or cause

Log date: 24-Aug-2016 6:46 am

Logged by: MDOBROTH

Correction and elimination methods

Description: Completed 8/23/16

Found a very small drip at the city side of the duel purpose. tried tightening it but was unsuccessful. replaced the setter and meter box. there is still a very small customer side leak.

Public entity

Mitigated by City of Bellevue

45604536 Read 45

Log date: 23-Aug-2016 8:17 am

Logged by: SSTANLEY

Description: Responded to call on 8/22/16

Dug up and found that the city side dual purpose was dripping at the flare fitting. Will need to dig up and install new sette City side is 3/4" copper, and it is on a short setter.

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Work order number: Date Reported: Description:	643354 August 22, 2016 2:27 pm SLB 2016 Contractor has hit		CLOSE SSTANLEY	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		No	0	
Precipitation in previo	us 24 hours			
Frequency		O	ne-time spill	
Constituted a threat to	human healt or the environmer	nt? No	0	
Immediate response?		Ye	es	
Is the structure mappe	ed/inventoried?	Ye	es	
Investigated within 7 of	days?	Ne	ot applicable	
If suspected illicit con	nection, investigated within 21 d	ays? No	ot applicable	
Final resolution of illic	it connection within six months?	No	ot applicable	
How did you learn abo	out the problem?	Ot	ther public report	
Source tracing metho	d	Vi	isual recon	
Indicator testing		CI	hloride and fluroride	
Pollutants identified		Se	ediment / spoil	
Source or cause		Pt	ublic entity	
Correction and elimina	ation methods	М	itigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 23-Aug-2016 7:44 am

Logged by: SSTANLEY

Description: Responded to call on 8/22/16

Got on site and contractor had hit a 1" copper service line. Locates were correct. With the water flowing we tried to turn c the corp but we were unable to shut the corp off. Had to shut down the water main. We tied into the existing corp and saddle, the saddle has a stainless band. Cut in about 3' of 1" copper. Flushed service line and leak checked. Shut down main at 3:30pm till 5pm flushed for 20 minutes at 200 gpm ending residual of 1.02. It was M and T contractor that hit the service line. Inspector Charlie Douthit (206)650-9541 has the info for the contractor.

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Work order number: Date Reported: Description:	643475 August 22, 2016 2:55 pm SWQ @ 663 W Lake Samm. S	Status: Assigned to: Sewer overflow	INPRG JELLMAN at this time	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	us 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	human healt or the environmer	nt? Y	es	
Immediate response?)	Y	es	
Is the structure mapp	ed/inventoried?	Y	es	
Investigated within 7	days?	Y	es	
If suspected illicit con	nection, investigated within 21 da	ays? N	ot applicable	
Final resolution of illic	it connection within six months?	N	ot applicable	
How did you learn ab	out the problem?	S	taff referral	
Source tracing metho	d	V	isual recon	
Indicator testing		F	low	
Pollutants identified		S	ewage / septage	
Source or cause		S	Anitary overflow	
Correction and elimin	ation methods	M	itigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 23-Aug-2016 7:05 am

Logged by: JSIZEMORE
Description: Site Check

Checked the two possible structures where the overflow could possible go. Pulled lids. No sewage entering the MS4.

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HOLD 643878 Work order number: Status: **BTHOMPSON** Date Reported: August 24, 2016 8:25 am Assigned to: SLB 2016 Water is pooling near the meter (PATCH 5x6) Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill

The same of the property of the same of th	
Investigated within 7 days?	Yes
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	None found
Source or cause	Source not identified

No

Yes

Yes

Mitigated by City of Bellevue

WORK LOG / NOTES:

Immediate response?

Is the structure mapped/inventoried?

24-Aug-2016 12:16 pm Log date:

Constituted a threat to human healt or the environment?

BTHOMPSON Logged by: Possible pin hole Description:

Correction and elimination methods

Traced out service line to water main. Service runs right through wet spot on the side of the road. No stream or water running off.

Log date: 24-Aug-2016 12:29 pm

Logged by: **BTHOMPSON** WO318477 Description:

Tom H. had already done repair on SL and stated copper was in poor condition. We will need to replace entire service. E

326

26-Aug-2016 10:59 am Log date:

BTHOMPSON Logged by: Description: Repaired leak

Found 1/4 inch hole in 1" copper service line. We went 1/3 of the way into the road and connected to 1" copper that looks much better than the rest we cut out. Ran 41 feet of copper, to 3/4 setter. There was a funky T in the old service line that was capped but we abandoned that anyways. Did restoration today, BT 326

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Log date: 29-Aug-2016 10:19 am

Logged by: BTHOMPSON

Description: Spoke with homeowner

After we made the repair I spoke with homeowner. I asked her who had connected her service straight to the meter, she stated that COB was the only ones to work on water line years ago. We replaced resetter and brought service up anyway so it is no longer an issue. BT 326

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Work order number: Date Reported: Description:	643884 August 24, 2016 9:42 am SLL 2016 (p5'x4') Water com	Status: Assigned to: ning up from pa		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		ı	No	
Precipitation in previo	us 24 hours			
Frequency		(One-time spill	
Constituted a threat to	human healt or the environme	nt?	No	
Immediate response?		`	r es	
Is the structure mapp	ed/inventoried?	•	f es	
Investigated within 7	days?	ı	Not applicable	
If suspected illicit con	nection, investigated within 21 d	lays?	Not applicable	
Final resolution of illic	it connection within six months?	· I	Not applicable	
How did you learn ab	out the problem?	(Other public report	
Source tracing metho	d	,	/isual recon	
Indicator testing		(Chloride and fluroride	
Pollutants identified			Sediment / spoil	
Source or cause		F	Public entity	
Correction and elimin	ation methods	ı	Mitigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 31-Aug-2016 8:07 am

Logged by: SSTANLEY

Description: Responded to call on 8/24/16

Got on site and found about 2 gpm flowing in the parking lot. Made contact with customer and she stated that the water had been flowing for about a week. Marked area for locates and made contact with the business that would be affected. Looks like the best time to make the repair and to do a shut down is on Sunday as no one is open.

Log date: 31-Aug-2016 8:11 am

Logged by: SSTANLEY

Description: Repaired leak on 8/28/16

Found a small crack in a 1" poly line. Cut out about 2' of poly and installed 2' of 1" copper. Leak checked and flushed service. Shut down water main at 8:30am and back on at 10am. flushed for 60 minutes at 150gpm with ending residual c 1.02. There is to patches one is 1'x3' and two is 3'x3' and it is by the catch basin.

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Work order number: Date Reported: Description:	644016 August 25, 2016 2:31 pm SLL 2016 Meet with Doug ALI	Status: Assigned to: D 9/6 (P 4'x	HOLD GKNIGHT :10' + 4'x5')		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?	
SPECIFICATIONS:					
Raining?		N	0		
Precipitation in previo	us 24 hours				
Frequency		0	ne-time spill		
Constituted a threat to	human healt or the environment	? N	0		
Immediate response?		Y	Yes		
Is the structure mapped/inventoried?		Y	Yes		
Investigated within 7 of	days?	N	ot applicable		
If suspected illicit con	nection, investigated within 21 day	ys? N	ot applicable		
Final resolution of illic	it connection within six months?	N	ot applicable		
How did you learn abo	out the problem?	0	Other public report		
Source tracing metho	d	V	isual recon		
Indicator testing		С	hloride and fluroride		
Pollutants identified		S	ediment / spoil		
Source or cause		P	ublic entity		
Correction and elimination methods		M	itigated by City of Bellevue		
WORK LOG / NOTES:					
Log date:	08-Sep-2016 7:11 am			_	
Logged by:	SSTANLEY				
Description:	Met with doug on 9/7/16				

Checked all the services and the water main. Looks like there is a leak on the service feeding 17215 SE 29 CT. Doug is going to follow up on either 9/8/16 or 9/9/16 to see if he can locate a better location on the line to pin point the leak.

Log date: 29-Sep-2016 8:29 am

Logged by: SSTANLEY

Description: Hung door tags and checked locates 9/26/16

Log date: 29-Sep-2016 8:29 am

Logged by: SSTANLEY

Description: Repaired on 9/28/16

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Met with leak detection again on site, so after we got the crops exposed they could flow air into the lines to find the leak. We shut off the corps and found one that was leaking. Leak detection listened on that service and found a small pin hole on the line about 4' away from the setter. We repaired it with just one repair coupling, we also replaced the old saddle. Water main was shut off at 10am and back on at 2:30pm flushed for 40 minutes at 50gpm with ending residual of 1.10. There are 2 patches one on the main side and one by the water meter. One patch is 4'x10' at the main the other patch is 4'x5' by the meter, patches will be taken care of when they replace the service lines. Meter# 8730865

Read 6352

Log date:	26-Aug-2016	2.10 nm
Log date:	26-Aug-2016	3:18 DM

Logged by: JHARRISON

Description: Hello Jenelle,

Let's schedule for 9/7/16 at 9:00AM start time with Doug for now, and we'll let you know if we need to reschedule. Please provide us with the onsite contact information.

Best regards,

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INPRG 644026 Work order number: Status: Date Reported: August 25, 2016 5:23 pm Assigned to: BMILLER Meydenbauer Marina sewage spill Description: **REGULATORY: HPA Required?** X DOE Called? X NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? No (see notes) Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon Visual indicators Indicator testing Pollutants identified Sewage / septage Source or cause **SAnitary overflow** Education / technical assistance Correction and elimination methods

WORK LOG / NOTES:

Log date: 25-Aug-2016 5:37 pm

Logged by: BMILLER

Description: Beach closer Meydnebauer Marinia

- 🗆 🗆 🗅 🗆 4:00 pm Sample was taken, We have some clean up sewer wipes to clean up on outfall side.
- \text{\text{\$\tinx{\$\text{\$\tinx{\$\text{\$\}\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{
- Dockmatser aware as well.

Log date: 31-Aug-2016 8:42 pm

Logged by: CVANHOOF

Description: Wednesday spill

Had another SSO today at the marina. Estimated 500 gallons entered the lake between the blockage and City crew cleaning the line. DOE was notified and ERTS (667334) was created. KC Public Health was also notified and samples were taken to AMTEST. The docks were also posted warning lake users.

Log date: 29-Aug-2016 8:50 am

Logged by: MCPAN

Description: Another spill

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On 8/26/16 @ 1602, another spill at the same location was reported. @ 1610, AmTest called and informed of previous c result was satisfactory. Michael and Todd went out to site to meet with Clint E to inspect; flow was estimated at 7 gpm. Wastewater crew was onsite @ 1628 and cleared blockage @ 1706. Beach closure signs remained in place. DOE and KC Public Health were notified @2000. DOE's Danielle returned the call, but no call back from KC Public Health. On 8/27/16 @ 0800, MPan collected 3 fecal samples and delivered to AmTest for analysis.

Log date: 29-Aug-2016 1:27 pm

Logged by: CVANHOOF

Description: Sample Results

Sample results came back high and are attached to this work order. Three more samples were taken at 11:30 and delivered to AMTEST.

Log date: **02-Sep-2016 6:40 am**

Logged by: CVANHOOF

Description: Sample results again high

Received the sample results from AMTEST and the numbers were high. The marina was resampled yesterday at 3:00 and were dropped of at the lab at 4:00. Results from those samples will be done today around 4:00.

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COMP 644429 Work order number: Status: Date Reported: August 31, 2016 12:46 pm Assigned to: BMILLER 10360 Main Street Paint wash out Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? X NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? Precipitation in previous 24 hours One-time spill Frequency No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon **Visual indicators** Indicator testing **Paint** Pollutants identified Construction Source or cause Education / technical assistance Correction and elimination methods **WORK LOG / NOTES:** Log date:

Logged by:

Description:

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Work order number: 645019 Status: CLOSE

Date Reported: September 8, 2016 12:50 pm Assigned to: DBENSON

Description: WMB 2016 4" AC Water Main Break se 38th st EL # 16289249

REGULATORY:
HPA Required?
X DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Yes
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Staff referral
Source tracing method	Visual recon
Indicator testing	Turbidity
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 08-Sep-2016 2:21 pm

Logged by: JHARRISON

Description: Dale lead on site will update notes

4"AC water main break front of 3728 139th ave se 14 house shut down

Temporary Road closure 138thpl SE / SE 37th to cross streets 139th ave & 139th pl se 3735 138th pl se has water around house and carport no water reported inside of home

Log date: 13-Sep-2016 7:53 am

Logged by: DBENSON

Description:

9/8/2016 - Throttled main and turned off 12 services. Four inch main is approximately three and half feet deep. Cut in three foot piece of four inch DI with two himacs. Bedded main and checked for leaks at static pressure. No leaks found. Flushed for one hour at 75 GPM. Residual was .86. Restored services. Back filled with crushed and restored road with cold mix. Main observation report turned in. Patch sheet turned in. Water quality notified. Cleaned up debris and cleaned up driveway that needed it.

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Log date: 26-Oct-2016 3:50 pm

Logged by: JHARRISON

Description: CIP AC in area replacing water main will do the restro

2/27/2017 Page 171 of 23

Investigated within 7 days?

Source tracing method

645120 COMP Work order number: Status: September 9, 2016 1:25 pm Assigned to: CVANHOOF Date Reported: IDDE - Discharge from sushi into Lake Bellevue Description: **REGULATORY: HPA Required?** X DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency Intermittent Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried?

Yes

ERTS

Not applicable

Not applicable

Visual recon
Visual indicators

Food waste / oil

Commercial - Restaurant

Mitigated by responsible party

WORK LOG / NOTES:

Indicator testing

Pollutants identified
Source or cause

Log date: 09-Sep-2016 1:45 pm

If suspected illicit connection, investigated within 21 days?

Final resolution of illicit connection within six months?

Logged by: CVANHOOF

Correction and elimination methods

How did you learn about the problem?

Description: Investigation/Education

Anonymous caller reported cleaning water from I Love Sushi (23 Lake Bellevue Drive) into Lake Bellevue. The report washeen and odor from the discharge.

I responded to find the lake with a light sheen and odor. I talked with Uki (Manager) about illicit discharges and we walke through the kitchen to look at their disposal practices. They have a utility sink that they discharge mop water into.

The dumpster was leaking pretty bad though so we put down some absorbent to stop that. Uki called the garbage company to bring out a new dumpster and clean up the absorbent.

A educational flyer and IDDE Field Form were given.

Photo's and a copy of the Field Form are attached to the work order.

Log date: 15-Sep-2016 2:12 pm

Logged by: CVANHOOF

Description: Follow up due to another report

King County Public Health also visited the site and found the same issue with the dumpster.

The caller again contacted DOE with pictures of a film on the surface around some lily pads.

I returned to the site this morning and still did not find any evidence of dumping into the lake. The lily pads are 150 feet to lake from the kitchen area where presumably the dumping would occur. Up lake would be northeast of the building because the lake has a discharge channel so the flow of the lake would south west, so it would be difficult for material to move against the flow of the lake.

Periodic visual monitoring will be done.

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Log date: 21-Nov-2016 6:14 am

Logged by: CVANHOOF

Description: Another call

Another call was put in on Friday for illegal dumping from the restaurant. Work Order 651561 was created by the Front Desk so this work order will tagged as "Related Records" and then closed.

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Date Reported:	645379 September 14, 2016 7:15 am IDDE @ 1024 134th Ave NE	Status: Assigned to:	COMP JSIZEMORE	
REGULATORY:			HPA Required	=
Best Mgmt Practices (ESA	A):		X Illicit Discharg	ge?NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previous	s 24 hours			
Frequency		C	Other (see notes)	
Constituted a threat to h	human healt or the environment	? N	lo	
Immediate response?		Υ	'es	
Is the structure mapped	d/inventoried?	Υ	'es	
Investigated within 7 da	ays?	Y	'es	
If suspected illicit conne	ection, investigated within 21 da	ys? N	lot applicable	
Final resolution of illicit	connection within six months?	N	lot applicable	
How did you learn abou	ut the problem?	Р	Pollution hotline	
Source tracing method		٧	isual recon	
Indicator testing		٧	isual indicators	
Pollutants identified		A	Allowable discharge	

WORK LOG / NOTES:

Source or cause

Log date: 15-Sep-2016 6:59 am

Logged by: CVANHOOF
Description: Trace and Track

Correction and elimination methods

The foamy discharge was tracked back up Kelsey Creek into Sears Creek and eventually upstream to the City of Redmo Detention Vault.

Public entity

Behavior modification

Scott McQuary (City of Redmond) was notified and he met at the vault to help problem solve. The clean out gate on the control structure was opened by Redmond staff because some maintenance is needed inside the structure. This increased flow and caused a foam material when the velocity of flow was increased.

A homeowner on 134th Ave NE noticed the foam and contacted City of Bellevue.

Redmond will communicate in the future when discharge of this nature is done so we can monitor downstream.

Pictures from the tracking are attached to this work order.

Log date: 14-Sep-2016 7:29 am

Logged by: JSIZEMORE
Description: Meet on Site

Met on site with Travis Piland (storm standby). It looks like there was some foaming coming out of an 18" outfall into Kelsey Creek. At the time we could not determine whether or not it was an illicit discharge or where the foam might be coming from. It was beginning to get dark. I spoke with Chris VanHoof in the morning giving him a brief of the situation. He said he'd look into it further to determine what the issue might be.

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Work order number: Date Reported: Description:	645521 September 15, 2016 Illicit Discharge	Statu 5:43 am Assig			
REGULATORY: Best Mgmt Practices (Es	SA): BMP-5		X	HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:					
Raining?					
Precipitation in previou	us 24 hours				
Frequency					
Constituted a threat to	human healt or the en	vironment?			
Immediate response?					
Is the structure mappe	ed/inventoried?				
Investigated within 7 d	lays?				
If suspected illicit conr	nection, investigated wi	hin 21 days?			
Final resolution of illici	t connection within six	months?			
How did you learn abo	out the problem?				
Source tracing method	d				
Indicator testing					
Pollutants identified					
Source or cause					
Correction and elimina	ation methods	-			

WORK LOG / NOTES:

Log date: 15-Sep-2016 5:51 am

Logged by: TPILAND

Description: Illicit Discharge

9/13/16 #635 called out for a illicit discharge, got down to the stream and found lots of foam in stream. I called Water Quality and had him come out. I walked the stream but was unable to find the source. Water Quality was going to follow up the next day.

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	.				
Work order number: Date Reported: Description:	645662 September 16, 2016 10:59 ar SR 2016 Contractor hit Dot	Ū	CLOSE BTHOMPSON rthup		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called?	
SPECIFICATIONS:					
Raining?					
Precipitation in previo	us 24 hours				
Frequency		C	One-time spill		
Constituted a threat to	human healt or the environmen	t? N	lo		
Immediate response?)	Y	'es		
Is the structure mapp	ed/inventoried?	N	lo		
Investigated within 7	days?	N	lot applicable		
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable		
Final resolution of illic	Final resolution of illicit connection within six months?		Not applicable		
How did you learn ab	out the problem?	C	Other (see notes)		
Source tracing metho	d	V	isual recon		
Indicator testing		C	Chloride and fluroride		
Pollutants identified		N	lone found		
Source or cause		C	Construction		

WORK LOG / NOTES:

Log date: 19-Sep-2016 2:11 pm

BTHOMPSON Logged by:

Correction and elimination methods

Broken IRR. SL/ Aband. Description:

Contractor hit 1.5" copper SL that was not located but was on maps. On Friday 9/16/16 we crimped off the service, hand dug down to the main, shut off the corp. We stuck around to watch them work around the main since the corp was comin off the top of the WM. Tom Conway and Mike Hoel came out to inspect the saddle and decided they wanted it replaced and ran over the top of the new storm line. We came in at 3pm Saturday the 9/17/16 to do the shut down and swap the saddle. Water main was off for 2 hours and we flushed at 50 gpm for 1 hour CL2 res. was .80. Services back on by 7pm. This morning 9/19/16 transportation inspector said SL was too high. Jenelle checked with billing and Greg to see if the service was still used and decided to abandon it. Pulled off new parts, crimped old SL, shut off at corp, installed copper cap, and pulled meter. BT 326

Mitigated by City of Bellevue

Meter:D281478 Read: 661

20-Sep-2016 7:28 am Log date:

MGREENLEAF Logged by:

Was told this was abandoned. Description:

09/20/2016. When the locate requests came in many times, I looked for this meter and was never able to find it. About a month ago I asked Greg Knight about it. He looked it up and told me that that line and meter were abandoned in 2005. MBG 323

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Description:

Work order number: Date Reported: Description:	September 16, 2016 11:42 and Assign Spills/Pollution - Oil Spill can of	
REGULATORY:		HPA Required? DOE Called?
Best Mgmt Practices (E	SA):	Illicit Discharge? NPDES?
SPECIFICATIONS:		
Raining?		
Precipitation in previo	ous 24 hours	
Frequency		One-time spill
Constituted a threat to	o human healt or the environment?	No
Immediate response?		Yes
Is the structure mapp	ed/inventoried?	Yes
Investigated within 7	days?	Not applicable
If suspected illicit con	nection, investigated within 21 days?	Not applicable
Final resolution of illic	cit connection within six months?	Not applicable
How did you learn ab	out the problem?	Pollution hotline
Source tracing metho	d	Visual recon
Indicator testing		Visual indicators
Pollutants identified		Vehicle fluids
Source or cause		Vehicle
Correction and elimination methods		Mitigated by City of Bellevue
WORK LOG / NOTES:		
Log date:		
Logged by:		

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646133 **HOLD** Work order number: Status: September 21, 2016 12:48 pn Assigned to: GKNIGHT Date Reported: **SLL 2016** (p 15' x 15') Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing

WORK LOG / NOTES:

Pollutants identified
Source or cause

Log date: 23-Sep-2016 12:00 am

Logged by: SSTANLEY

Correction and elimination methods

Description: Responded to call on 9/21/16

Made contact with customer and she stated that the water has been there for the last couple of weeks, and that they had shut off there irrigation system 2 days ago to check to see if it was there system that was leaking. Marked area for locates, and locates turned in on 9/22/16. After listening to services believe that it is the meter for 16108 Ne 15 St meter# 8718948 that is leaking.

Sediment / spoil

Mitigated by City of Bellevue

Public entity

Log date: 07-Oct-2016 8:23 am

Logged by: SSTANLEY

Description: Repaired on 10/5/16

Found leak in 1" poly line where it comes out of the corp. Shut down meters at 9:30am and found a broken 10" water values we were unable to shut down the water main. We turned off the corp and tied into the old corp and cut in about 3' of 1 poly, leak checked and flushed at setter.

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Work order number: Date Reported: Description:	646599 September 26, 2016 10:10 a SLB 2016 CIP Contractor hit	•	CLOSE SSTANLEY	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required	=
SPECIFICATIONS:				
Raining?		N	No	
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environmen	nt? N	No	
Immediate response?)	`	Yes	
Is the structure mapp	ed/inventoried?	١	Yes	
Investigated within 7	days?	N	Not applicable	
If suspected illicit con	nection, investigated within 21 d	ays?	Not applicable	
Final resolution of illic	cit connection within six months?	N	Not applicable	
How did you learn ab	out the problem?	C	Other public report	
Source tracing metho	od	\	/isual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		9	Sediment / spoil	
Source or cause		F	Public entity	
Correction and elimin	ation methods	N	Mitigated by City of Belley	/ue

WORK LOG / NOTES:

Log date: 27-Sep-2016 7:50 am

Logged by: SSTANLEY

Description: Responded to call on 9/26/16

Got on site and contractor and pumping water to keep from flooding customers property. It was a 3/4" carlon line that had broken. We throttled the water main down so we could get the crop shut off. Left main throttled till we could check the condition of the 4" saddle. Inspector Robert Rudd helped and spoke with the contractor and it was decided that they wou just run a nice 1" line to meter to replace the carlon line. We supplied 4' of 3/4" cooper and 1 1"x3/4" PJC. They will connect the line to the new water main next week.

Meter# Y320742 Read 2320

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	·	
Work order number Date Reported: Description:	646656 Status: CLOSE September 26, 2016 2:19 pm Assigned to: MCPAN Chromium-6	
REGULATORY: Best Mgmt Practices	HPA Required? DOE Called? ESA): Illicit Discharge? NPDES?	
SPECIFICATIONS:		
Raining?		_
Precipitation in prev	ous 24 hours	_
Frequency		
Constituted a threa	to human healt or the environment?	_
Immediate respons	?	_
Is the structure map	ped/inventoried?	_
Investigated within		_
	nnection, investigated within 21 days?	_
Final resolution of i	cit connection within six months?	
How did you learn a	pout the problem?	
Source tracing met	od	
Indicator testing		
Pollutants identified		
Source or cause		
Correction and elim	nation methods	
WORK LOG / NOTES:		
Log date:	28-Sep-2016 6:25 am	
Logged by:	MCPAN	
Description:	Customer Contact	
_	, MPan spoke with Nasrin and explained to her the current USEPA and CalEPA standards on ed customer that Bellevue's water is safe to drink and use. Customer was satisfied with information	
Log date:	26-Sep-2016 4:49 pm	
Logged by:	MCPAN	
Description:	Customer Contact	
On 9/26/16 @ 164	, MPan emailed customer to solicit contact information.	
Log date:	27-Sep-2016 7:11 am	
Logged by:	MCPAN	
Description:	Customer Contact	

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On 9/27/16 @ 0711, MPan called and left a message.

647074 **CLOSE** Work order number: Status: September 30, 2016 2:59 pm Assigned to: BTHOMPSON Date Reported: WMB 2016 8" AC TYPE 2 Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? No Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 03-Oct-2016 7:13 am Log date: **KFOCKLER** Logged by: Kipps PRO Card used @ QFC and Jimmy Johns to feed crew Description: Log date: 30-Sep-2016 6:50 pm Logged by: **BTHOMPSON** Description: **Emergency Locate**

Log date: 07-Oct-2016 3:04 pm

Logged by: MDOBROTH

Ticket 16318328

Description: 10/3/16 restoration

Finished restoration of the two holes behind the house and in the front yard. Reseeded the front yard where the original grass line was and left the small garden area topsoil they said they would replant the plants we dug up.

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Log date: 10-Oct-2016 2:52 pm

Logged by: BTHOMPSON

Description: Met with Robert Rudd

I went out and met with Rob today to explain to him what we did and what needed to be done depending on what they decided to do for service lines. They are either going to run new main into the cul de sac or use the old 8" ac as a sleeve run new lines off the existing DI water main and abandoning the rest. BT 326

Log date: 01-Oct-2016 2:08 pm

Logged by: BTHOMPSON

Description: Water main repair

BFD on site 3pm

Water was filling up yard/house of 2740 and bubbling up from behind fence at 2616.

Pulled up maps, killed valve on DI section of main, throttled the lateral feed on evergreen pt rd. Water started to drain fro back yard. Meters were turned off at approximately 3:30-no water calls came in.

6 Homes out of water-1 flooded

Lots of debris and sediment that will need to be cleaned up along fence line and in back yards.

Cut 8" ac to cut in a stick, then found that there was a longitudinal crack—running down a good section of the AC in between 2 trees and under a fence. Decided to cap the DI with temp blowoff to flush out of and get those 2 services back on. Flushed for 1 hour at 75 gom. .69 CL2 res. Services on at 11pm. We then decided to find the AC main in the cul de sac off evergreen pt rd between 2616 and 2618 to cut and cap, abandoning the section of AC that ran between the hous since it didn't have any services between. It took some time to locate the 8' AC main, once we did, cut a 14" section out, installed romac with a temp 2" BO as well to flush out of. We flushed for another hour and got a .82 CL2 residual. Both caps are temp blocked and filled with crushed around them. The remaining 4 services had water restored at about 4am. I have been in touch with Michael Pan, told him that if he wanted anymore flushing done or help with anything, I would be able to come out.

2740-flooded. Home had 4-6 inches of water in it. Evergreen services came out and a crew had shown up a couple hour later for restoration in the home. We will need to go out Monday to compact the crushed rock, fix a 3/4 irrigation line, and restore lawn in front of 2618 and 2616.

BT 326

Log date: 30-Sep-2016 3:30 pm

Logged by: JHARRISON

Description: 2704 E HAS WATER POOLING IN YARD

Log date: 04-Oct-2016 10:36 am

Logged by: BTHOMPSON

Reservation: 20

Description: Restoration 2618

2618 Evergreen Pt RD is the only home that still has debris/damage to the lawn. I spoke with Dwight Russell 425-455-48 and told him I would pass his information on to risk. He preferred to have his landscaper do the work next time he comes out. BT 326

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Work order number: Date Reported: Description:	647137 October 2, 2016 5:11 pm IDDE and DWQ sampling	Status: Assigned to:	COMI	P NHOOF	
REGULATORY:				HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):			X Illicit Discharge?	NPDES?
SPECIFICATIONS:					
Raining?			No		
Precipitation in previo	us 24 hours				
Frequency			One-tim	e spill	
Constituted a threat to	human healt or the environme	nt?	Yes		
Immediate response?		,	Yes		
Is the structure mappe	ed/inventoried?	,	Yes		
Investigated within 7 of	days?		Yes		
If suspected illicit con	nection, investigated within 21 c	lays?	Not app	licable	
Final resolution of illic	it connection within six months?		Not app	licable	
How did you learn abo	out the problem?		Staff ref	ferral	
Source tracing method	d	,	Visual r	econ	
Indicator testing			Turbidit	ty .	
Pollutants identified			Sedime	nt / spoil	
Source or cause			Public e	entity	

WORK LOG / NOTES:

Log date: 03-Oct-2016 6:38 am

Logged by: MCPAN

Correction and elimination methods

Description: DWQ response

On 9/30/16 around 2300, MPan was notified of a Type 3 main break. MPan emailed Lynn K. and Winsome R. of SPU microbiology lab to inform of incoming samples and requested WQ Standby to call and notify DOH. On 10/1/16 @ 0800, MPan made positive contact with SPU lab and picked up sample bottles at 1000. Total of 4 samples were taken; 2 on the east of break and 2 on the west side. All samples were take at customer's front hose bibs. Samples were turned in @1300. On 10/2/16 @ 0900, SPU lab left a voice mail on MPan's cell phone informing of coliform and E. Coli results; all samples returned zero.

Mitigated by City of Bellevue

Log date: **02-Oct-2016 5:18 pm**

Logged by: CVANHOOF

Description: IDDE and DWQ sampling

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Estimated 80,000 gallons of water was discharged into Medina's storm system during the main break. Ryan Osada with Medina was contacted on Friday at 4:30 regarding the break and possible impacts to their storm system. He said they would send a crew out Monday to assess the impacts and clean if needed.

Michael Pan was contacted on Friday night once the main break was classified as a Type III. DOH was called and a message we left for Derek letting him know about the break and that the city would sample the next morning. Water Department was also flushing and recording chlorine residuals on Friday before water service was restored. Michael Pan sampled the water system on Saturday morning and the samples were taken SPU lab. Bac T results were

Michael Pan sampled the water system on Saturday morning and the samples were taken SPU lab. Bac T results were clear on Sunday.

DOE was contacted Saturday morning to files an ERTS with the discharge to Medina. Buck was on standby for DOE an called to find out about the incident. If Medina calls with an impact report I will contact DOE and update the ERTS. The ERTS and any drinking water sample results should be saved to this work order in the attachments tab.

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Work order number: Date Reported: Description:	647289 October 4, 2016 11:30 am WVL Corroded bonnet bol	Assigned to: RG	OSE GIBERSON SIZE?	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		No		
Precipitation in previo	ous 24 hours			
Frequency		One-f	time spill	
Constituted a threat to	o human healt or the environmen	nt? No		
Immediate response?)	Yes		
Is the structure mapp	ed/inventoried?	Yes		
Investigated within 7	days?	Not a	pplicable	
If suspected illicit con	nection, investigated within 21 d	ays? Not a	pplicable	
Final resolution of illic	cit connection within six months?	Not a	pplicable	
How did you learn ab	out the problem?	Other	r public report	
Source tracing metho	d	Visua	al recon	
Indicator testing		Chlor	ride and fluroride	
Pollutants identified		Sedir	ment / spoil	
Source or cause		Publi	c entity	
Correction and elimin	ation methods	Mitig	ated by City of Bellevue	

WORK LOG / NOTES:

Log date: 05-Oct-2016 9:31 am

Logged by: NRAUSCHER

Description:

Arrived and found that contractor had exposed a 4" valve for the fire line with 3 of the 4 bolts holding the bonnet on rotted away and the bonnet had lifted approx. an inch on one side. There was no water leaking so I cleaned the flange up on exposed areas and used food grade grease to attempt to seat the gasket back in its seat. Placed two nuts and bolts in th front two holes and tightened them down spinning the valve open at the same time to allow the bonnet to reseat. After getting those tight I replaced the third and got the water to stop dripping and returned valve to the open position so the condos would have fire protection. After speaking to the contractor he was going to saw cut around the hole and make th cut bigger so we can go back and replace the gasket and the fourth nut and bolt on the bonnet when a shutdown was scheduled. He was going to backfill and put a temporary patch down as well. Spoke the head of the HOA so she also knows what is going on.

The contractor had an assistant with him as well as a truck driver, dump truck, backhoe, and crew truck on site. I am not sure if there was a trailer around as I did not see one.

Log date: 25-Oct-2016 3:38 pm

Logged by: RGIBERSON

Description: Previewed job 10/21 Hung tags 10/25

Shutdown scheduled 8:30am-2pm Thursday 10/27

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Log date: 28-Oct-2016 7:47 am

Logged by: RGIBERSON

Description: Rebuilt valve and replaced corroded bonnet bolts

Shutdown water main

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Work order number: Date Reported: Description:	647311 October 4, 2016 11:04 am IDDE - Soaplike substance c	Status: Assigned to: oming out of C		P NHOOF	
REGULATORY: Best Mgmt Practices (E	SA):			HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:					
Raining?		Y	'es		
Precipitation in previo	us 24 hours				
Frequency		C	ne-tim	ne spill	
Constituted a threat to	human healt or the environmer	nt? Y	'es		
Immediate response?		Y	'es		
Is the structure mappe	ed/inventoried?	Y	'es		
Investigated within 7 of	days?	Y	'es		
If suspected illicit con	nection, investigated within 21 d	ays? N	lot app	licable	
Final resolution of illic	it connection within six months?	N	lot app	licable	
How did you learn abo	out the problem?	S	Staff re	ferral	
Source tracing metho	d	V	/isual r	econ	
Indicator testing		V	/isual i	ndicators	
Pollutants identified		S	Soap / c	detergent	
Source or cause		C	Constru	ıction	

WORK LOG / NOTES:

04-Oct-2016 2:44 pm Log date:

CVANHOOF Logged by: Description: Response

Correction and elimination methods

Phil Pederson (COB) called in an illicit discharge from his construction site at the address listed. They noticed soapy water in a catch basin that was coming from a contractor on the roof of the new building washing. I checked Meydenbauer Creek at SE 3rd and soap was visible where the creek velocity picked up.

Behavior modification

DOE was notified with a quantity of 2 quarts reported on ERTS

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Work order number: 647363 Status: INPRG
Date Reported: October 5, 2016 7:57 am Assigned to: BMILLER

Description: Water run-off from garage fire

REGULATORY:
HPA Required?
X DOE Called?

Best Mgmt Practices (ESA):
X Illicit Discharge?
X NPDES?

SPECIFICATIONS:

Raining?	
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Staff referral
Source tracing method	Visual recon
Indicator testing	Visual indicators
Pollutants identified	Other (see notes)
Source or cause	Residential
Correction and elimination methods	Behavior modification

WORK LOG / NOTES:

Log date: 06-Oct-2016 7:18 am

Logged by: BMILLER

Description: Spoke with Dave Dusty about the debri and any getting into the stormdrian

under the NPDES permit it is allowable Discharge, we still reported it as a discharge to the MS4. doing a follow up inspection.

Log date: 05-Oct-2016 10:38 am

Logged by: BMILLER

Description: Responed to Fire Dept. request

Had the private Contractor WY contractors clean the 2 CB's adjacent to the garage fire at 10319 NE 19th Place.

Also called in ERTS see attached

Log date: **05-Oct-2016 10:45 am**

Logged by: BMILLER

Description: DOE Spill responce called

Spoke with Cory King on the phone about the response 425 649-7092

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CLOSE 647444 Work order number: Status: Date Reported: October 6, 2016 7:22 am Assigned to: SSTANLEY WMB 2016 8" AC Loc# 16324254 Text at 4:02pm Water main break Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response?

Yes

Not applicable

Not applicable

Not applicable
Other public report

Visual recon

Public entity

Sediment / spoil

Chloride and fluroride

Mitigated by City of Bellevue

WORK LOG / NOTES:

Indicator testing
Pollutants identified

Source or cause

Log date: 07-Oct-2016 9:33 am

Logged by: DBENSON

Correction and elimination methods

Is the structure mapped/inventoried?

How did you learn about the problem?

If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months?

Investigated within 7 days?

Source tracing method

Description:

10/5/2016 - Water was flowing through the landscape in front of the building onto ne 29th pl. No property damage was observed. Searched for valve and eventually un earthed. Can and riser were under landscape and can was found a few away under about a foot of soil. Shutdown two valves and the last valve leaked by about 30GPM. No services were on main. Notified building maintenance. Marked for locates, coned off area and used caution tape to warn of area. Put dechlor pucks in gutter line. Notified crew Thursday am.

Log date: 14-Oct-2016 7:42 am

Logged by: SSTANLEY

Description: Finished resto on 10/7/16

Log date: 07-Oct-2016 7:11 am

Logged by: SSTANLEY

Description: Repaired on 10/6/16

Main was throttled down when I got on site. Had streets close down west bound Ne 29th PI so we could use the lane to park equipment. Dug Found a crack in the 8" AC water main from a tree root. Removed the tree root and installed an SS The water main would not shut off and was leaking by at about 30gpm, so there was no flushing required. Bed the water main and will finish resto the next day.

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Work order number: Date Reported: Description:	647470 October 6, 2016 10:11 am IDDE - Concrete being poure	Status: Assigned to: ed into Storm d		
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? DOE Called X Illicit Discharge? NPDES?	?t
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previous	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat t	o human healt or the environmen	nt? Y	'es	
Immediate response	?	Y	'es	
Is the structure mapp	ped/inventoried?	Y	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit cor	nnection, investigated within 21 d	ays? N	lot applicable	
Final resolution of illi	cit connection within six months?	N	lot applicable	
How did you learn ab	oout the problem?	Р	Pollution hotline	
Source tracing metho	od	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		C	Cement / concrete	
Source or cause		C	Commercial - Mobile business	
Correction and elimin	nation methods	N	litigated by responsible party	

WORK LOG / NOTES:

Log date: 07-Oct-2016 6:03 am

Logged by: **CVANHOOF**Description: **Investigation**

Neighbor called in a contractor washing new exposed aggregate into the storm catch basin. Chad Brown responded firs and found Step Up Concrete & Construction pressure washing the top surface of the new aggregate into the street curb line. Discharge traveled down the street into a city catch basin which then flowed through 4 other basins and stopped at manhole.

Contractor called Davidson Macri to come out and clean the curb line and structures.

An IDDE Field Form and educational flyer were given to the contractor and pictures are attached to the work order.

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Work order number: Date Reported: Description:	647604 October 7, 2016 10:25 am Sewer Overflow - Possible G	Status: Assigned to: Frease and Rag	COMP CVANHOOF Issues	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environmen	nt?)	'es	
Immediate response?		`	'es	
Is the structure mapp	ed/inventoried?	١	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 d	ays? N	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	5	Staff referral	
Source tracing metho	d	\	/isual recon	
Indicator testing		\	isual indicators	
Pollutants identified		5	Sewage / septage	
Source or cause		S	Anitary overflow	
Correction and elimin	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 07-Oct-2016 12:38 pm

Logged by: CVANHOOF
Description: Response

Sewer had a overflow from their manhole in the intersection of Main Street and Bellevue Way. Estimated 20 gallons ran south down the curb line and entered a city catch basin (3179867). This basin discharges into the pipe that carries Meydenbauer Creek to it's outfall point.

Seth Mattox responded with the sewer jet truck and relieved the blockage that looked to be from rags and grease.

DOE was notified and ERTS 668104 was created.

Chad Brown sent out his vactor truck to clean the basin of any residual liquid/material.

The Ecology report and pictures are attached to this work order.

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Work order number: Date Reported: Description:	647822 October 10, 2016 3:05 pm Turbidity Levels Extremely F	Status: Assigned to: ligh	COMP CVANHOOF
REGULATORY: Best Mgmt Practices (E	:SA):		HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:			
Raining?		N	No
Precipitation in previo	ous 24 hours		
Frequency		C	One-time spill
Constituted a threat to	o human healt or the environmer	nt?	No
Immediate response?)	Y	Yes .
Is the structure mapp	ed/inventoried?	Υ	⁄es
Investigated within 7	days?	Υ	/es
If suspected illicit con	nection, investigated within 21 da	ays? N	Not applicable
Final resolution of illic	cit connection within six months?	N	Not applicable
How did you learn ab	out the problem?	F	Pollution hotline
Source tracing metho	d	V	/isual recon
Indicator testing		Т	Furbidity
Pollutants identified		N	None found
Source or cause		C	Construction
Correction and elimin	ation methods	N	No action needed

WORK LOG / NOTES:

Log date: 11-Oct-2016 11:45 am

Logged by: CVANHOOF

Description: Response and sampling

Went to Lake Bellevue and checked the lake turbidity. Four samples were taken at various sides of the lake and the results were:

Crab Pot Restaurant 4.45 NTU

Lake Bellevue Village Building #5, 5.13 NTU

Lake Bellevue Village Building #6, 4.74 NTU

Lake Bellevue Outfall, 4.67 NTU

I also took a sample reading with Mr. Link who called in the turbidity and it was 4.78 NTU.

If DOE responds I will follow up with them and I talked with Paul Krawczyk (COB Project Manager) too. He will talk with the contractor and his inspector to make sure BMP's are updated if needed.

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WAUDIT 647827 Work order number: Status: Assigned to: RGIBERSON Date Reported: October 11, 2016 12:01 pm SLL On/Off valve on meter is leaking Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Visual recon Source tracing method Chloride and fluroride Indicator testing None found Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 12-Oct-2016 7:27 am Log date:

MHOEL Logged by:

Description: 10/11/16 I went out and found that the shut off stop is leaking

Some And I talk to customer and let them know that we will get to it when we get a chance. It is not leaking that bad.

Log date: 21-Oct-2016 10:03 am

Logged by: **RGIBERSON**

Description: 10/19 Marked for locates

01-Nov-2016 12:06 pm Log date:

RGIBERSON Logged by:

Description: Leak on customer side galvy, setter is tweaked.

Meter spinning slowly dug down and found galvy service line in poor repair and water coming in from outside the meter b on the customer service line. City side meter gasket had a slight drip as well and replacing did not fix that small drip. Setter seems to be bent slightly from roots pushing on it, causing the meter gasket not to seal. Explained leak to customer, he said that he would get someone out to repair it soon and thee notify us so we can install a new 3/4" setter. .75" copper on city side. Meter # Read 3641 Rick 337

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Log date: 15-Feb-2017 2:45 pm

Logged by: RGIBERSON
Description: Checked resto

Rick 337

Log date: 31-Jan-2017 11:47 am

Logged by: SCARR

Description: Received call from customer notifying COB leak on customer side

Side of meter has been repaired. Customer has meter exposed and is ready for the COB to proceed with the meter replacement. SWR # has been created and attached to this existing work order. Shas 1/31/17 @ 1149

Log date: 08-Feb-2017 3:04 pm

Logged by: RGIBERSON

Description: 2/1/17 324 and 331 froze line and replaced setter

Drip still coming from city side flare at dual purpose. They informed customer we'd be back to dig back and put in new copper

Log date: 09-Feb-2017 1:54 pm

Logged by: RGIBERSON

Description: Replaced leaking dual purpose

Dug with Vactor out near street to avoid damaging the tree and roots. Froze service in that hole and cut service line, because of Tee on customer side we had to install 2-.75" MIPxPJC's and 1' of 3/4" copper.

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Description:

COMP 648055 Work order number: Status: Date Reported: October 13, 2016 1:54 pm Assigned to: CVANHOOF IDDE - Spill on I-90 Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours One-time spill Frequency Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other agency referral How did you learn about the problem? Source tracing method Visual recon Visual indicators Indicator testing Vehicle fluids Pollutants identified **Vehicle** Source or cause Other (see notes) Correction and elimination methods **WORK LOG / NOTES:** Log date: Logged by:

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Work order number: Date Reported: Description:	648432 October 17, 2016 10:02 am SLB 2016 COB WW CREWS	Status: Assigned to: HIT WATER SE		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	human healt or the environmer	nt? N	lo	
Immediate response?		Y	'es	
Is the structure mapp	ed/inventoried?	Υ	'es	
Investigated within 7	days?	N	lot applicable	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	C	Other public report	
Source tracing metho	d	V	isual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		S	Sediment / spoil	
Source or cause		F	Public entity	
Correction and elimin	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 17-Oct-2016 2:40 pm

Logged by: SSTANLEY

Description: Responded to call on 1017/16

Got on site and found the water was flowing into a cb right next to the hole. There was some blue paint line next to the hole where they hit the 1" poly line, the marks were 2' to the west of the line, and were marked as unlocatable. No proper damage was being done. Shut off all meters and tried to shut the main down but it would not shut down, so the repair was made live. Flushed the service line and checked for leaks. Services were off at 11am and back on at 12pm.Cut in 3' of 1' copper. Waste water will be taking care of the back fill and patch.

Meter# 61562900

Read 1181 Log date:

17-Oct-2016 11:51 am

Logged by: JHARRISON
Description: Wwloc #

From: Greenleaf, Michael Sent: Monday, October 17, 2016 11:44 AMThe 1" poly line that was hit is for address 10833 Se 23rd st. Locate ticket# 16328328.

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HOLD 648575 Work order number: Status: **RGIBERSON** Date Reported: October 18, 2016 10:03 am Assigned to: SLL 2016 by Leak detec (P 50x10+5x5) Description: **REGULATORY: HPA Required?** DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Not applicable Not applicable Final resolution of illicit connection within six months? How did you learn about the problem? Other (see notes) Visual recon Source tracing method Chloride and fluroride Indicator testing

None found

Public entity

Mitigated by City of Bellevue

WORK LOG / NOTES:

Pollutants identified Source or cause

Log date: 21-Oct-2016 3:24 pm

Logged by: RGIBERSON

Correction and elimination methods

Description: Marked for locates, services are longsides

Leak is near saddles. Locate ticket #16344687. Rick 337

Log date: 04-Nov-2016 8:06 am

Logged by: RGIBERSON
Description: Replaced saddle

Dug up saddles and replaced. Water main shutdown from 10:30-2:30 we had to work WV109429 in order to get main to shutdown. Ripped trench with trackhoe to middle of street (approx. 30') and installed new 1" copper service lines. Installe curb stops and hooked to existing lines. Backfilled main and trench and secured site for evening, will return tomorrow and finish line replacement. CL. residual .9, flushed at 50gpm for 60 minutes. Rick 337

Log date: **07-Nov-2016 9:32 am**

Logged by: RGIBERSON

Description: Ran new service line from curb stop to setter

Spent a long time trying to pothole the gas, so we would be able to trench with the excavator. We were unable to locate the gas where it was marked out at so we trenched with the Vactor until we were several feet from the mark on either side. Dug rest of trench with trackhoe and ran new 1" copper to new .75" setters. The customer side hook up to the irrigation was dripping so we repaired that with some couplings Backfilled and cold mixed road. Rick 337

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Log date: 07-Nov-2016 3:24 pm

Logged by: RGIBERSON
Description: Finished Resto

MOR filed

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HOLD 648580 Work order number: Status: Assigned to: RGIBERSON Date Reported: October 18, 2016 11:06 am WMB 2016 6" AC (P 5x6) Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Final resolution of illicit connection within six months? Not applicable Other (see notes) How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing None found Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** 21-Oct-2016 3:27 pm Log date: **RGIBERSON** Logged by: Marked for locates, 12 house shutdown Description:

Rick 337

Log date: 28-Oct-2016 3:23 pm

Logged by: RGIBERSON

Description: Leak at collar on 6" AC. Cut in 30" of 6" DI

Shut down water main from 10am-2pm. Leak at collar 6" AC was deflected pretty far at joint. Cut in 27" of 6" DI with 2 Hymax couplings Flushed for 30 minutes at 50gpm, CL residual .57. Top of main 4.5', O.D. 7.25". M.O.R. turned in.

Repair located 15' North of WV. Rick 337

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Work order number: 648585 Status: HOLD

Date Reported: October 18, 2016 11:19 am Assigned to: MDOBROTH

Description: SLL 2016 LD 1215 169th Ave NE (P ???)

REGULATORY:
HPA Required?
DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other field screening
Source tracing method	Other (see notes)
Indicator testing	Chloride and fluroride
Pollutants identified	None found
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 31-Oct-2016 9:03 am

Logged by: RGIBERSON

Description: 10/21 Marked for locates and submitted

Ticket #16344692. Long side dual service Leaking near meter boxes but may be multiple pinholes on 1" copper Garbage

day is Friday

Log date: 29-Nov-2016 7:22 am

Logged by: MDOBROTH

Description: 11/28

Hung Tags for wed 11/30 8AM till 3PM

14 houses1 hydrant

Set up 8 no parking signs starting at NE 12th heading North on 169th Ave to the addressed house 1215 NE 169th Ave

Log date: 29-Nov-2016 3:19 pm

Logged by: MDOBROTH

Description: 11/29

Saw cut the trench for the line and added a sock in the catch basin.

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Log date: 30-Nov-2016 3:05 pm

Logged by: MDOBROTH

Description: 11/30

dug down and replaced the saddle and ran a new 1 inch copper line across the street.

installed a curb stop 3 feet into the yard from the curb before the yoke of the duel service.

did not replace the yoke or setters due to a fence being over top one of the meter boxes and judging by the condition on the water main. the MOR shows the details of the main but it was in poor condition, saddle broke off as soon as we touched it.

Services off - 830AM Flush Start - 10:45AM Services on - Noon Flush throttled down - Noon Flush end - 12:45pm Chlorine Res - 0.32

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Work order number: Date Reported: Description:	648630 October 19, 2016 6:28 am IDDE - Construction water di	3	COMP CVANHOOF 4	
REGULATORY:			HPA Required?	X DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		Ye	es	
Precipitation in previo	us 24 hours			
Frequency		0	ne-time spill	
Constituted a threat to	human healt or the environmer	nt? Yo	es	
Immediate response?		Yo	es	
Is the structure mappe	ed/inventoried?	Ye	es	
Investigated within 7 of	days?	Ye	es	
If suspected illicit con	nection, investigated within 21 da	ays? N	ot applicable	
Final resolution of illic	it connection within six months?	N	ot applicable	
How did you learn abo	out the problem?	El	RTS	
Source tracing metho	d	Vi	sual recon	
Indicator testing		Vi	sual indicators	
Pollutants identified		Sc	ediment / spoil	
Source or cause		C	onstruction	

WORK LOG / NOTES:

Log date: 19-Oct-2016 6:30 am

Logged by: CVANHOOF

Description: Follow Up

Correction and elimination methods

Contacted Jim McElroy after the ERTS came to Water Quality from DOE. ERTS 668326 was created in response to turk construction water that was discharged over the weekend from the Downtown Park construction. Heavy rains over the weekend created more stormwater than they had capacity for and they had to discharge to the MS4. Turbidity readings were 110 NTU's during discharge and they continue monitor discharge which is now below 10 NTU's.

Mitigated by responsible party

Jim said they are currently in the process of adding more capacity for detention so if future rain events they will have the ability to hold more water for better settling.

I will check the downstream basins for any impacts of sediment today.

The ERTS is attached to this work order if needed.

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Work order number: Date Reported: Description:	649353 October 25, 2016 2:12 am Structure Fire, pollutants en	Status: Assigned to: tering storm sy				
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called? NPDES?		
SPECIFICATIONS:						
Raining?						
Precipitation in previo	us 24 hours					
Frequency						
Constituted a threat to	human healt or the environmer	nt?				
Immediate response?						
Is the structure mappe	ed/inventoried?					
Investigated within 7 of	days?					
If suspected illicit con	If suspected illicit connection, investigated within 21 days?					
Final resolution of illic	it connection within six months?					
How did you learn abo	out the problem?					
Source tracing method	d					
Indicator testing						
Pollutants identified						
Source or cause						
Correction and elimina	ation methods					

WORK LOG / NOTES:

Log date: 25-Oct-2016 2:23 am

Logged by: **BWHITING**Description: **Structure fire**

I received a call in regards to a structure fire and in the process of putting the fire out untold amounts of suds and water entered our system. I immediately called the Water Quality Stand by, Michael Pan came in to assist me. Danielle from the Department of Ecology contact us and asked to meet us at the marina. When we arrived we found that a large amou of suds were in the lake. Per Don McQuilliams request, we coordinated with Danielle on CB's she wanted cleaned. Danielle identified 3 CB's she wanted cleaned. So Michael and I went back to the BSC and got 4167 and came back out and Vactored those 3 CB's as requested. While cleaning those, Captain Popochuck texted me and requested that I clos 100th ave ne from NE 4th st to NE1st st. We came back to the BSC and got the appropriate signage needed and closec the streets as requested.

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Work order number: Date Reported: Description:	649466 October 25, 2016 12:23 pm Fire dept. had 100th shut do	Status: Assigned to: wn due to stru	APPR TROHR cture fire. monitoring	
REGULATORY:			HPA Requi	ired? DOE Called?
Best Mgmt Practices (E	SA):		Illicit Discha	
SPECIFICATIONS:				
Raining?				
Precipitation in previo	us 24 hours			
Frequency				
Constituted a threat to	human healt or the environmer	nt?		
Immediate response?				
Is the structure mappe	ed/inventoried?			
Investigated within 7 of	days?			
If suspected illicit con	nection, investigated within 21 d	ays?		
Final resolution of illic	it connection within six months?			
How did you learn abo	out the problem?			
Source tracing metho	d			
Indicator testing				
Pollutants identified				
Source or cause				
Correction and elimina	ation methods			
WORK LOG / NOTES:				
Log date:				
Logged by:				
Description:				

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Description:

CAN 649593 Work order number: Status: Date Reported: October 26, 2016 3:48 pm Assigned to: **DBENSON** CM 2016 SIDE WALK REAPIR Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? NPDES? Best Mgmt Practices (ESA): BMP-14 **SPECIFICATIONS:** No Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Staff referral How did you learn about the problem? Source tracing method Visual recon **Turbidity** Indicator testing Pollutants identified Sediment / spoil **Public entity** Source or cause Mitigated by City of Bellevue Correction and elimination methods **WORK LOG / NOTES:** Log date: Logged by:

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Work order number: Date Reported: Description:	649612 October 27, 2016 6:22 am IDDE - Turbid construction v	Status: Assigned to: vater into MS4	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		Υ	'es	
Precipitation in previo	us 24 hours			
Frequency		Ir	ntermittent	
Constituted a threat to	human healt or the environmer	nt? Y	'es	
Immediate response?		Υ	'es	
Is the structure mapp	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	s	Staff referral	
Source tracing metho	d	V	isual recon	
Indicator testing		Т	urbidity	
Pollutants identified		S	Sediment / spoil	
Source or cause		C	Construction	
Correction and elimin	ation methods	N	litigated by responsible par	rty

WORK LOG / NOTES:

27-Oct-2016 6:30 am Log date:

CVANHOOF Logged by:

Description: Investigation and reporting

Paul Armstrong noticed turbid water in the COB pond at 116th Ave SE and SE 65th Place. I traced and tracked the turbidity to be entering the COB MS4 in structure 365887 and flowing through the system. The turbidity was coming from the City of Newcastle system and school construction at 6928 116th Ave SE. The turbidity reading in COB manhole was 448 NTU.

I spoke with the Superintendent for Porter Brothers Construction and informed they were discharging dirty water, he said they would look into it and there was another school site upstream that could be contributing.

Contact with Audrey (City of Newcastle) was also made and she said they would do a site visit and check their system. DOE was also notified and an ERTS was created because the discharge was tracked to Lakehurst Creek and eventually into Lake Washington.

Pictures from the discharge event are attached to the work order and the ERTS will be too once received from DOE.

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WAUDIT 650142 Work order number: Status: November 2, 2016 10:05 am Assigned to: **RGIBERSON** Date Reported: SLB contractor hit w/s on Chris P job site Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours Frequency One-time spill Constituted a threat to human healt or the environment? No Yes Immediate response? Is the structure mapped/inventoried? Yes Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other public report How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Pollutants identified Sediment / spoil Source or cause Construction

WORK LOG / NOTES:

Log date: 03-Nov-2016 8:16 am

Logged by: DBENSON

Correction and elimination methods

Description:

11/2/2016 - Contractor pulled on service line making it leak about 6 feet from main. Crimped one inch copper line. Froze line and cut in two feet of one inch copper line with two one inch by one inch pack joints. Checked for leaks at static. No leaks found. Flushed through flush tube. Meter number P506447. Read 3990

Mitigated by City of Bellevue

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INPRG 650175 Work order number: Status: November 2, 2016 1:56 pm Date Reported: Assigned to: King County Metro Bus leaked hydraulic fluid Description: **REGULATORY: HPA Required?** X DOE Called? X NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? 1 Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Immediate response? Yes Yes Is the structure mapped/inventoried? Not applicable Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Final resolution of illicit connection within six months? Not applicable Other agency referral How did you learn about the problem? Source tracing method Visual recon Visual indicators Indicator testing

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 02-Nov-2016 5:04 pm

Logged by: BMILLER

Correction and elimination methods

Description: Bus Hydraulic leak on the wheel chair lift

Responed to the spill, laid out kitty litter and Spagsorbent, We worked with King county to contain to 7 CBs Derick and Randy responded to the CB with Vactor clean out, directed traffic to stay off the oil slick. clean up was completed about 5:00. We Dispatched Street Sweeper to clean up absorbent. Was in contact and communication with Talon Swanson of k Spill response. I will follow up in the morning to check for any out standing issues.

Vehicle fluids

Education / technical assistance

Vehicle

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Work order number: 650587 Status: CLOSE

Date Reported: November 8, 2016 9:50 am Assigned to: RGIBERSON

Description: SLL Water leak in street 6410 141st Ave SE (P 90x5x20+5x4)Loc#16361991

REGULATORY:	HPA Required? DOE Called?	
Best Mgmt Practices (ESA): BMP-14	X Illicit Discharge? NPDES?	

SPECIFICATIONS:

Raining?	Yes
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	Yes
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 29-Dec-2016 11:53 am

Logged by: **GKNIGHT**Description: **Restoration**

Restoration work completed. Inspected 12/13/16 / Invoice 83125

Log date: 09-Nov-2016 7:04 am

Logged by: RGIBERSON

Description: Leak on 100' poly service line

Marked for locates and submitted. Spoke with customer, other services in bump out have been replaced because of multiple leaks. Installed sock in CB and placed declor in curb and gutter. Rick 337

Log date: 09-Nov-2016 3:25 pm

Logged by: RGIBERSON

Description: Attempted to trace service line

Tracing wire in meter box but signal fades out after 30' or so. Service line is 100' in length and seem to be running toward eastern most 45 on the main. Traced out main as well while onsite and replenished dechlor. Rick 337

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Log date: 14-Nov-2016 3:15 pm

Logged by: RGIBERSON

Description: Saw cut road, hung tags

Hung tags for short notice shutdown. Saw cut road where new service will run, had to guess where we thought existing saddle and line was because we were unable to trace it. Rick 337

Log date: 17-Nov-2016 7:12 am

Logged by: RGIBERSON

Description: Abandoned old service, installed new service

Pulled up and hauled out asphalt, began ripping new trench with mini excavator. Potholed gas, power and storm as we h to cross all three. Vactored around meter box as well, and performed water main shutdown at about 9:30. Fish taped and traced existing service line and found it did not run any where close to where we thought. At that point we jack hammere a whole over the old saddle and abandoned it, then continued in our saw cut to make a new tap there for the new line. Tapped water main and installed 100' of new 1" copper with a curb stop installed right near the curb as well. Flushed ma for 45 minutes at 50gpm, CL residual .73.

Log date: 18-Nov-2016 7:52 am

Logged by: RGIBERSON

Description: Finished patching road, hauled out remaining asphalt

Used backhoe to load remaining asphalt and finished patching road and side walk with cold mix. Resto'd area around meter box and reset sod. MOR completed Rick 337

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	-	
Work order number: Date Reported: Description:	650689 November 9, 2016 7:47 am WMB 8" DI Water seeping up t	Status: HOLD Assigned to: RGIBERSON hru asphalt patch (P10'x6')
REGULATORY: Best Mgmt Practices (E	SA): BMP-14	HPA Required? DOE Called? X Illicit Discharge? NPDES?
SPECIFICATIONS:		
Raining?		No
Precipitation in previo	us 24 hours	
Frequency		One-time spill
Constituted a threat to	human healt or the environment?	No
Immediate response?		Yes
Is the structure mappe	ed/inventoried?	Yes
Investigated within 7 of	days?	Not applicable
If suspected illicit con	nection, investigated within 21 day	s? Not applicable
Final resolution of illic	it connection within six months?	Not applicable
How did you learn abo	out the problem?	Other public report
Source tracing metho	d	Visual recon
Indicator testing		Chloride and fluroride
Pollutants identified		None found

WORK LOG / NOTES:

Source or cause

Log date: 10-Nov-2016 3:14 pm

Logged by: RGIBERSON

Correction and elimination methods

Description: Leak on 8" DI, main is corroded

Exposed about 10' of 8" DI water main, severe pitting along top of main (see pictures). Bottom of water main felt even me corroded than top, although we were unable to get pictures of the underside. Installed 12" long repair band at the site of some deep pitting, no leak at that area currently. Exposed more main and found hole in top of main leaking approx. 10gpm. Installed 20" repair band (non inventory) over leak. Back filled with crushed and cold mix. Repaired main live and did not shutdown any services. Rick 337

Public entity

Mitigated by City of Bellevue

Log date: 09-Nov-2016 3:12 pm

Logged by: RGIBERSON

Description: Small leak on 8" DI water main

Marked for locates and submitted. Hung tags for shutdown tomorrow 11/10.

Log date: 14-Nov-2016 3:05 pm

Logged by: RGIBERSON

Description: Marked for patch, 10'x6'

MOR filed

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Work order number: 650808 Status: COMP
Date Reported: November 9, 2016 9:45 am Assigned to: BMILLER

Description: Contractor wash out to lake Spill-Green white Liquid plaster board

REGULATORY:	HPA Required?	X DOE Called?
Best Mgmt Practices (ESA):	X Illicit Discharge?	X NPDES?

SPECIFICATIONS:

Raining?	
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	Yes
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Yes
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Staff referral
Source tracing method	Visual recon
Indicator testing	Visual indicators
Pollutants identified	Paint
Source or cause	Construction
Correction and elimination methods	Education / technical assistance

WORK LOG / NOTES:

Log date: **09-Nov-2016 3:24 pm**

Logged by: BMILLER

Description: Did follow up and called in ESRT

ESRT # 668875

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Work order number: Date Reported: Description:	651165 November 15, 2016 6:11 am IDDE - Roof coating (Latex) v	Ŭ	COMP CVANHOOF orm system	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		O	ne-time spill	
Constituted a threat to	human healt or the environmen	t? Y	es	
Immediate response?		Υ	'es	
Is the structure mapp	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	'es	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	s	taff referral	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified		Р	aint	
Source or cause		C	Construction	
Correction and elimin	ation methods	А	dd or improve source control	ВМР

WORK LOG / NOTES:

Log date: 15-Nov-2016 6:28 am

Logged by: CVANHOOF

Description: Investigation & Response

Kyle Thieme with Transportation called in discolored water in the storm system and pond at 2700 Northup Way. The source was roof coating applied by Moon Construction on Friday (11/11) that did not cure before rains came and washed some of the material down the gutter system.

The discharge entered a private catch basin and control manhole before discharging into the MS4 and pond at 2700. Turbidity reading was 76 NTU at the outfall manhole of the pond, but Yarrow Creek was clean and clear.

DOE, Moon Construction and Tony Shehab (COB) were notified for reporting and planning possible clean-up. ERTS 668930 was created by Ecology and is attached to this work order.

BMP and clean-up is cleaning the private structures do prevent any more material from entering the MS4 along with plac a silt fence barrier around the outlet opening in the pond to allow the coating to settle out of the water. The material is latex based so most of the issue is discoloration during discharge.

Follow up with DOE may be done today since they were called to a different incident yesterday and were not able to respond.

Log date: 15-Nov-2016 6:45 am

Logged by: **CVANHOOF**

Description: More information

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Estimated 5 gallons of material washed off the roof according to the contractor from the original 50 gallons that was used. Cliff Moon is the owner of the contracting business and his number is 206-391-9543. Jeff was the onsite lead for Moon Construction.

Greg Stegman at DOE was also called for guidance and they dispatched Trevor as their spill response, but he was called to a different incident before arrival.

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Work order number: Date Reported: Description:	651544 November 18, 2016 10:26 ar WMB 2016 Contractor has h	J	WAUDIT SSTANLEY I line
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:			
Raining?		N	lo
Precipitation in previo	us 24 hours		
Frequency		C	ne-time spill
Constituted a threat to	o human healt or the environmer	nt? N	lo
Immediate response?)	Y	es
Is the structure mapp	ed/inventoried?	Y	es
Investigated within 7	days?	N	ot applicable
If suspected illicit con	nection, investigated within 21 d	ays? N	ot applicable
Final resolution of illic	it connection within six months?	N	ot applicable
How did you learn ab	out the problem?	C	Other public report
Source tracing metho	d	V	isual recon
Indicator testing		C	hloride and fluroride
Pollutants identified		S	ediment / spoil
Source or cause		P	ublic entity
Correction and elimin	ation methods	N	litigated by City of Bellevue

WORK LOG / NOTES:

Log date: 21-Nov-2016 7:23 am

Logged by: SSTANLEY

Description: Responded to call on 11/18/16

Got on site and Tom C had assisted in throttling down the water main and contacting the affected customers. Main was left on by about 3 to 5gpm. Tom C had the contractor dig and expose the water main. Had to cut and install, and reconne 2 1" copper services. Flushed for 40 minutes at 50gpm. Services were off at 10:30 and back on at 2pm.

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WAUDIT 651784 Work order number: Status: November 21, 2016 9:20 am Assigned to: SSTANLEY Date Reported: SLL 2016 Leak at the meter - LOC # 16374564 **Possibly COB side** Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Best Mgmt Practices (ESA): BMP-14 Illicit Discharge? SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable

How did you learn about the problem? Source tracing method Visual recon Chloride and fluroride Indicator testing Sediment / spoil Pollutants identified Source or cause **Public entity** Mitigated by City of Bellevue Correction and elimination methods

Other public report

WORK LOG / NOTES:

22-Nov-2016 2:51 pm Log date:

SSTANLEY Logged by:

Responded to call on 11/21/16 Description:

Found meter not spinning and water flowing up from around the meter. Tried to dig in the box to verify the leak. There are many roots in the box to check, believe that the setter is broken. Hung tags and marked for locates.

Log date: 22-Nov-2016 3:02 pm

SSTANLEY Logged by:

Repaired service on 11/22/16 Description:

Dug about 5 feet away from the setter to verify what the city service line is. The city side is 1" copper. We crimped and froze the line to install a new setter away from the roots. Made contact with customer and showed the home owner what was going on, we moved the setter about 3' away from the tree and tied back into the old setter and told the customer the it is a temp hook up and she was now responsible for the line to the new setter. See pictures. Meter# 8552496 Read 282

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Work order number: Date Reported: Description:	652411 November 28, 2016 1:16 pm SLB 2016 (p10x6') Water con	•	HOLD SSTANLEY ne pavement	
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	0	
Precipitation in previo	us 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	human healt or the environmen	it? N	0	
Immediate response?		Y	es	
Is the structure mappe	ed/inventoried?	Y	es	
Investigated within 7 of	days?	N	ot applicable	
If suspected illicit con	nection, investigated within 21 da	ays? N	ot applicable	
Final resolution of illic	it connection within six months?	N	ot applicable	
How did you learn abo	out the problem?	C	ther public report	
Source tracing metho	d	V	isual recon	
Indicator testing		C	hloride and fluroride	
Pollutants identified		S	ediment / spoil	
Source or cause		P	ublic entity	
Correction and elimina	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 29-Nov-2016 7:25 am

Logged by: SSTANLEY

Description: Responded to call on 11/28/16

Found water flowing. Made customer contact and she stated that it just started flowing. Throttled down the water main ar made contact with affected customers. Traced out water service to the water main. Turned services off at 2:40pm and customers were back on at 4:20pm, there was 6 services that were off. Flushed for 30 minutes at 75gpm, with ending residual of 0.30. Replaced the 4" broken saddle, new 1" corp, and tied back into the 1" copper service line. checked for leaks and flushed service. Patch size of 10'x6' asphalt.

Meter# 8836108 Read 2270

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652464 COMP Work order number: Status: November 29, 2016 6:19 am Assigned to: CVANHOOF Date Reported: IDDE - Car accident, Gas spill to storm drain Description: **REGULATORY: HPA Required?** X DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? No Precipitation in previous 24 hours Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable

Not applicable

Visual recon
Visual indicators

Vehicle fluids

Vehicle

Other public report

Mitigated by City of Bellevue

WORK LOG / NOTES:

Indicator testing

Source or cause

Pollutants identified

Source tracing method

Log date: 29-Nov-2016 6:34 am

Final resolution of illicit connection within six months?

Logged by: CVANHOOF

Correction and elimination methods

How did you learn about the problem?

Description: Call out, investigation and response

Chad Brown was called by NORCOM for an auto accident at the southwest corner of 124th Ave NE & NE 8th Street, whi caused gas to spill and enter the MS4 catch basin 320373. Water Quality responded and found gas on the road with absorbent and a small sheen in the basin. There was a small amount of flow through the system so an oil absorbent box was placed downstream in catch basin 320385 and tied to the grate in case of overnight rain. A sweeper will clean the intersection of absorbent and the boom will be left in place until any residual is gone.

After hours DOE was notified and the spill was reported as less than 1 gallon entering the storm system. An ERTS will b created and attached to the work order.

The eventual discharge point enters the West Tributary of Kelsey Creek at 12820 NE 8th (Regional Detention Facility)

Log date: 12-Dec-2016 7:58 am

Logged by: CVANHOOF

Description: Remove boom

Stopped by catch basin and removed the absorbent boom. There was no evidence of petroleum in the boom or in the structure.

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Work order number: Date Reported: Description:	652645 State November 30, 2016 1:21 pm Assi SLL Leak at the meter 1706 159th A	gned to: RGIBERSON				
REGULATORY:		HPA Required?	DOE Called?			
Best Mgmt Practices (E	SA): BMP-14	X Illicit Discharge?	NPDES?			
SPECIFICATIONS:						
Raining?		No				
Precipitation in previo	us 24 hours					
Frequency		One-time spill	One-time spill			
Constituted a threat to	human healt or the environment?	No				
Immediate response?		Yes				
Is the structure mappe	ed/inventoried?	Yes				
Investigated within 7 days?		Not applicable				
If suspected illicit con	nection, investigated within 21 days?	Not applicable				
Final resolution of illicit connection within six months?		Not applicable				
How did you learn about the problem?		Other public report				
Source tracing metho	d	Visual recon				
Indicator testing		Chloride and fluroride				
Pollutants identified		None found				
Source or cause		Public entity				

WORK LOG / NOTES:

Log date: 01-Dec-2016 12:53 pm

Logged by: BTHOMPSON
Description: Leak at meter

Correction and elimination methods

Leak reported at meter of 1733 159th Ave NE. I could hear a leak on both services. They are both at very bad angles, hit on city side, pointing down to customer side. 1" poly service lines. There are roots around the setter/service to 1733 whic I believe is the one that is leaking. There are large bushes around the meter box and they are right on the curb/asphalt so could not chase the leak. Tested for fluoride to verify we did have a leak. Marked out for locates and requested. Will pass off to dig team to make decision to fix/replace. BT 326

Mitigated by City of Bellevue

Log date: 06-Dec-2016 1:15 pm

Logged by: RGIBERSON

Description: Leak on 1" poly service line

Originally planned on replacing both lines but both turned and ran parallel with the main several feet before turning again go to main. No tracing wire on services so performed scheduled shutdown and cut line at leak about 4' south of meter be and traced out. Installed 1' of 1" copper and 2-1" PJipxPJC's. Line is very brittle and should be replaced. Because of a saddle break we decided to just repair for today as the services should be relocated properly. Water main shutdown from 9:30am-12:30pm. Flushed both directions at 50gpm for 30 minutes, CL. residual 1.07. Rick 337

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Work order number: 652875 Status: WAUDIT

Date Reported: December 2, 2016 11:22 am Assigned to: RGIBERSON

Description: SLB Water bubbling up in the curbing

REGULATORY: HPA Required? DOE Called?

Best Mgmt Practices (ESA): BMP-14

X Illicit Discharge? NPDES?

SPECIFICATIONS:

Raining?	No
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 02-Dec-2016 3:19 pm

Logged by: RGIBERSON

Description: Broken long side carlon

Arrived onsite to find water coming up along curb at about 50gpm. Throttled main and knocked on doors. Shut down wat services and main, services off from 12:15-2:15. Carlon break was under the road on the longside service for 415, replac saddle and enlarged tap. Bagged corp and backfilled with 1 yard of crushed and jumpered 415 from the neighbors setter 423. Made contact with residents affected who were home and hung door tags as well. Flushed both directions at 50gpm for 45 minutes, CL residual .78. Will need to return to run new longside service. Rick 337

Log date: 05-Dec-2016 2:22 pm

Logged by: RGIBERSON

Description: Replaced service line

Dug up water main and service on either side of street and shot hole hog. Pulled new 1" copper service line and plumber new saddle and new setter. Backfilled with crushed rock and topsoil and removed jumper between 423 and 415. Resto'd area, no road was cut so patching needed. Meter #64393340 Read 607. Rick 337

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Work order number: Date Reported: Description:	653099 December 6, 2016 11:05 am WMB 2016 CIP hit 6" AC mai	•		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	us 24 hours			
Frequency		C	ne-time spill	
Constituted a threat to	human healt or the environmen	t? N	lo	
Immediate response?		Y	es	
Is the structure mappe	ed/inventoried?	Y	es	
Investigated within 7 of	days?	N	lot applicable	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	it connection within six months?	N	lot applicable	
How did you learn abo	out the problem?	C	Other public report	
Source tracing metho	d	V	isual recon	
Indicator testing		C	hloride and fluroride	
Pollutants identified		S	ediment / spoil	
Source or cause		P	ublic entity	
Correction and eliminate	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

Log date: 06-Dec-2016 12:18 pm

Logged by: MGREENLEAF

Description: Didn't pothole to verify location.

12/06/2016. I met with the contractor lead and Robert Rudd on site about a week ago to discuss this exact location. Brav had potholed about 75 ft. away and located the watermain 4' north of the center stripe. There is a hydrant to the west tha has the foot valve right next to the hydrant in the gravel on the north shoulder.. The contractor was going to put some fittings on the new watermain to reconnect to the old 6' a.c. They were going to be digging close to the 6' a.c. I told the lead that because we are not 100 percent sure of where it is that they need to pothole first. He agreed and said once they get close to that location they will.

Our as-builts also show the watermain 15' north of the centerline. That is not accurate. Bravo potholed at that location an it is 4' north of the centerline. MBG 323

Log date: 08-Dec-2016 7:38 am

Logged by: SSTANLEY

Description: Responded to call on 12/6/16

Had main throttled down for the saddle that had blown off 14816 Se 51 St. Contractor hit the 6" AC water main. The loca marks were painted about 4' to the south of the actual location of the main. The contractor had three guys from there cre assist in turning off the houses in the shut down area. We did not knock on doors to notify the customers. We had services off at 12 and back on at 5:30pm. Flushed for 60 minutes at 75gpm with an ending residual of 0.34. Cut in 2' of 6 DI, and used hymax couplings. There was no damage done.

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Date Reported:	653177 December 7, 2016 6:46 am WMB 2016 12" AC TXT@5:1	3	HOLD RGIBERSON 56th & Lk Hills Blvd		
REGULATORY: Best Mgmt Practices (ES/	A): BMP-14		HPA Required? X Illicit Discharge?	DOE Called?	
SPECIFICATIONS:					
Raining?			0		
Precipitation in previous	s 24 hours				
Frequency		0	ne-time spill		
Constituted a threat to h	numan healt or the environmen	t? Y 0	es		
Immediate response?	Immediate response?		Yes		
Is the structure mapped	d/inventoried?	Y	es		
Investigated within 7 da	ıys?	N	ot applicable		
If suspected illicit conne	If suspected illicit connection, investigated within 21 days?		ot applicable		
Final resolution of illicit	connection within six months?	N	ot applicable		
How did you learn abou	it the problem?	0	ther public report		
Source tracing method		V	isual recon		
Indicator testing		С	hloride and fluroride		

WORK LOG / NOTES:

Pollutants identified
Source or cause

Log date: 07-Dec-2016 3:55 pm

Logged by: JHARRISON

Correction and elimination methods

Description: Rick called on site 12" AC WMB

7 homes in shutdown. about 7 Rick called in and reported 13 News on site. During that time working w/Michael May he the sent out tweets and contacted Metro and School District. Streets se well as TC to close the road. End of the day re-notified all the road back open

Sediment / spoil

Mitigated by City of Bellevue

Public entity

Log date: 08-Dec-2016 7:23 am

Logged by: RGIBERSON

Description: Cut in 4' of 12" DI on existing 12" AC water main

Initial text at 5:14am, onsite at 5:45. Water coming out from NE corner of intersection, next to sidewalk. Water flowing about 1200gpm and because of freezing temps, was causing ice along 156th Ave NE and Lake Hills Blvd. Contacted 30th and she requested sanding trucks while I worked on shutdown. Also informed her that we would need to close the intersection in order to do the repair. Did a controlled shutdown of the water main, including 7 services and 6 water valve Water main throttled at about 6:30am. Broke up sidewalk and excavated with Vactor (Locate ticket #16388499). Found gasket blown out on the 12" AC collar, with a decent amount of pipe deflection. Main has simplex milled ends. Cut in 4' o DI pipe using 2-12" hymax couplings, removing the milled ends. Filled main slowly as we only had services to purge and flush from. Removed meters from 3 homes and filled/ flushed both directions at approx. 75gpm, CL residual .89. Backfills with 6 yards of crushed rock and .5 yard of cold mix and reset stop sign. Services restored at 3pm and road reopened at 3pm as well. Transportation handled the road closures and Michael May was in contact with Metro transit, and Bellevue school district as well as any onsite media. Estimated water loss 90,000 gallons Rick 337

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Log date: **09-Dec-2016 7:52 am**

Logged by: RGIBERSON

Description: 12/8-Cleaned trucks, resto and paperwork

308, 328, 337. M.O.R. filed, water chart and unscheduled S/D list filled out. Rick 337

Log date: 16-Dec-2016 1:51 pm

Logged by: RGIBERSON

Description: Patch 5x16 concrete sidewalk and ramp

Site restoration form filled out. Rick 337

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COMP 653308 Work order number: Status: December 8, 2016 10:45 am Assigned to: TMACFARLAN Date Reported: IDDE Water main break-12 in ac Description: **REGULATORY: HPA Required?** X DOE Called? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Raining? Precipitation in previous 24 hours Frequency One-time spill No Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? If suspected illicit connection, investigated within 21 days? Not applicable Yes Final resolution of illicit connection within six months? **Pollution hotline** How did you learn about the problem? Source tracing method Indicator testing

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 08-Dec-2016 11:04 am

Logged by: TMACFARLAN

Correction and elimination methods

Description: Responded to IDDE per Water dept

Site investigation. Check point of entry to Kelsey Creek for turbidity and signs of water spill making it to the stream. Calle in to DOE and created ERTS.

Public entity

Other (see notes)

Log date: 08-Dec-2016 11:06 am

Logged by: TMACFARLAN

Description: Coordinate with storm crew

Site investigation occurred around 9am on December 7th. Spoke with Chad about cleaning out catch basins.

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Work order number: Date Reported: Description:	653327 December 8, 2016 2:49 pm IDDE - Report of blue water i	Status: Assigned to: n Goff Creek	COMP CVANHOOF	
REGULATORY: Best Mgmt Practices (E	ESA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environmer	nt? N	lo	
Immediate response?)	Y	'es	
Is the structure mapp	ed/inventoried?	Y	'es	
Investigated within 7	days?	Y	′es	
If suspected illicit con	nection, investigated within 21 d	ays? N	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	E	RTS	
Source tracing metho	od	V	/isual recon	
Indicator testing		V	/isual indicators	
Pollutants identified		N	lone found	
Source or cause		S	Source not identified	
Correction and elimin	ation methods	N	lo action needed	

WORK LOG / NOTES:

Log date: **08-Dec-2016 3:13 pm**

Logged by: CVANHOOF

Description: Investigation

DOE called and reported blue water in Goff Creek at 13201 NE Bel-Red Rd from an anonymous caller. Tanya and I responded to investigate for discolored water. First visual check was done at NE 24th, then at 132nd & Northup with bot having clear water. We moved down to the reported site and flow was clear. Also checked at 13204 132nd Ave crossing the regional at NE 8th, 13031 NE 1st (creek entry before Glendale Golf Cours) and last check was Kelsey Creek Park. *F* spots had clear flow with no evidence of blue water.

DOE was notified with updates and they created ERTS 669424, once the report comes in it will be attached.

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Work order number: 653369 Status: HOLD

Date Reported: December 9, 2016 8:26 am Assigned to: RGIBERSON

Description: WMB 6" AC 3100 167th ave ne Water Leaks

REGULATORY:
HPA Required?
DOE Called?

Best Mgmt Practices (ESA):
BMP-14
X Illicit Discharge?
NPDES?

SPECIFICATIONS:

Raining?	Yes
Precipitation in previous 24 hours	
Frequency	One-time spill
Constituted a threat to human healt or the environment?	No
Immediate response?	Yes
Is the structure mapped/inventoried?	Yes
Investigated within 7 days?	Not applicable
If suspected illicit connection, investigated within 21 days?	Not applicable
Final resolution of illicit connection within six months?	Not applicable
How did you learn about the problem?	Other public report
Source tracing method	Visual recon
Indicator testing	Chloride and fluroride
Pollutants identified	Sediment / spoil
Source or cause	Public entity
Correction and elimination methods	Mitigated by City of Bellevue

WORK LOG / NOTES:

Log date: 09-Dec-2016 9:56 am

Logged by: JHARRISON

Description: Big Rock sent out

Front of 3100 167th AVE NE.

Crew is throttling main will be a type 1 controlled shut down.

No media onsite at this time.

We are knocking on doors to Inform customer of the shutdown that will soon be happening.

We will have approx. 30 home shut off.

Minor local traffic impacts. We will keep traffic moving and a watchful eye out for kids on the sidewalk.

No obvious or observable property damage.

WQ informed 9:23

Log date: 12-Dec-2016 4:05 pm

Logged by: RGIBERSON

Description: **Paperwork, truck clean up**Completed M.O.R., water and unscheduled S/D chart.

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Log date: 09-Dec-2016 2:08 pm

Logged by: RGIBERSON

Description: Cut in 3' of 6" DI pipe

Arrived on scene at about 9:10am, water flowing from sidewalk panel at about 75gpm. Performed unscheduled water ma shutdown but left main on and throttled while we broke up the panel and dug up main. Found hole in main right at collar, with a decent amount of deflection. Reed cut AC and installed 30" long stick of 6" DI and 2 Hymax couplings. Filled main and flushed at about 50gpm for about 45 minutes CL residual 1.1. Backfilled with 2.5 yards crushed rock and 1/4 yard co mix. Main off from 10am-1:30pm. Rick 337

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Work order number: Date Reported: Description:	653435 December 10, 2016 1:08 pm SLB TXT@8:13am 12/10/16 f	•		
REGULATORY: Best Mgmt Practices (E	SA): BMP-14		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?				
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environmer	nt? 🏻 🖍	lo	
Immediate response?)	`	'es	
Is the structure mapp	ed/inventoried?	١	'es	
Investigated within 7	days?	N	lot applicable	
If suspected illicit con	nection, investigated within 21 d	ays?	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	C	Other public report	
Source tracing metho	od	\	/isual recon	
Indicator testing		C	Chloride and fluroride	
Pollutants identified		N	lone found	
Source or cause		F	Public entity	
Correction and elimin	ation methods	N	litigated by City of Bellevue	

WORK LOG / NOTES:

11-Dec-2016 12:45 pm Log date:

RGIBERSON Logged by:

Description: Cut in 2' of 1" copper

Arrived at 8:45am, water flowing down curb at about 40gpm. Called in a crew but left main on. Cut road and Vactor'd dov to 1" poly line feeding 2 services. Line was broke where a 1" brass nipple had previously been installed. Crimped poly lin and installed 2' of 1" copper with 2-1" PJipxPJC's. Backfilled with 6 units crushed and 1 unit cold mix. Flushed both services. Rick 337

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	•			
Work order number: Date Reported: Description:	653502 December 12, 2016 8:20 am Spills/Pollution - Waste into	Assigned to: TI	OMP MACFARLAN	
REGULATORY:			HPA Required?	DOE Called?
Best Mgmt Practices (E	SA):		X Illicit Discharge?	NPDES?
SPECIFICATIONS:				
Raining?		Yes		
Precipitation in previo	us 24 hours			
Frequency		One	e-time spill	
Constituted a threat to	human healt or the environmen	t? Yes		
Immediate response?		Yes		
Is the structure mappe	ed/inventoried?	Yes		
Investigated within 7 of	days?	Yes		
If suspected illicit con	nection, investigated within 21 da	ays? Not	applicable	
Final resolution of illic	it connection within six months?	Yes		
How did you learn abo	out the problem?	Poll	lution hotline	
Source tracing metho	d	Visu	ual recon	
Indicator testing		Visu	ual indicators	
Pollutants identified		Sew	vage / septage	
Source or cause		Res	idential	

WORK LOG / NOTES:

Log date: 12-Dec-2016 11:27 am

Logged by: TMACFARLAN

Description: Received complaint

Correction and elimination methods

Complaint came via email from Chaz. Caller is Kai Ralls who is a homeowner in building B, unit 1. Mr. Ralls contact information is 206.251.1619. Mr. Ralls has a video of resident from A-1 Ms. Suzi Chang (or Chung). dumping waste material into storm drain between buildings A and B.

Mitigated by responsible party

Log date: 12-Dec-2016 11:30 am

Logged by: TMACFARLAN

Description: Site investigation

Arrived at the site at 10:00 am. Found copious amounts of fecal material onto of storm grate. See attached photo. Spoke with Mr. Ralls on site. He explained this has been occurring for over a month. Three phone calls were made to Bellevue P.D. Case file is available. Woman dumping waste may be mentally ill per complaintant. Storm system downstream did not have evidence of waste. It appears that the illicit discharge did not enter into the city's storm system. Spoke with complaintant and gave him the next steps for clean up.

Log date: 14-Dec-2016 11:37 am

Logged by: TMACFARLAN

Description: Catch basin cleaning

Complaintant called and said ventilation and power cleaning completed the work on 12/12/2016. Cost was \$614.

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Log date: 14-Dec-2016 11:39 am

Logged by: TMACFARLAN

Description: Followup field investigation

Site visit on 12/14/2016 confirmed catch basin had been cleaned. No further action.

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Work order number: 653551

Work order number: 653551 Status: CLOSE

Date Reported: December 13, 2016 2:15 am Assigned to: BTHOMPSON

Date Reported: Description:	SLB 2016 Txt@12:59am Carlon SLB	ed to: BIHOMPSON
REGULATORY: Best Mgmt Practices	(ESA):	HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:		
Raining?		No
Precipitation in prev	rious 24 hours	
Frequency		One-time spill
Constituted a threat	to human healt or the environment?	No
Immediate response	e?	Yes
Is the structure map	pped/inventoried?	Yes
Investigated within	7 days?	Not applicable
If suspected illicit co	onnection, investigated within 21 days?	Not applicable
Final resolution of il	licit connection within six months?	Not applicable
How did you learn a	about the problem?	Other public report
Source tracing meth	nod	Visual recon
Indicator testing		Chloride and fluroride
Pollutants identified		Sediment / spoil
Source or cause		Public entity

WORK LOG / NOTES:

Log date: 13-Dec-2016 5:29 am

Logged by: BTHOMPSON

Correction and elimination methods

Description: Carlon SLB replacement

Got a call from customer about a lot of water coming from his lawn behind the meter. Carlon SL snapped completely under juniper bush. Service was a short side, replaced saddle and ran new 1" copper to 3/4 setter. New box and lid. Had shut water main off for about 5 minutes. 10 house shut down and flushed for 20 miniutes at 150gpm. CL2 Res 1.09 BT 3

Mitigated by City of Bellevue

Log date: 13-Dec-2016 8:13 am

Logged by: BTHOMPSON
Description: Meter info

Meter 69995380 Read 1422

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Work order n Date Reporte Description:		653675 December 14, 2016 SLB contractor hit/		Ü		ERSON	
REGULATORY: Best Mgmt Pra		SA): BMP-14				HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATION	NS:						
Raining?				N	No		
Precipitation	in previou	us 24 hours					
Frequency				C	One-time	e spill	
Constituted a	a threat to	human healt or the e	nvironmen	t? N	No		
Immediate re	esponse?			Υ	es (
Is the structu	ire mappe	ed/inventoried?		Y	⁄es		
Investigated	within 7 d	ays?		N	Not appl	licable	
If suspected	illicit conr	nection, investigated w	ithin 21 da	ıys? N	Not appl	licable	
Final resoluti	ion of illici	t connection within six	months?	N	Not appl	licable	
How did you	learn abo	out the problem?		C	Other pu	ublic report	
Source tracin	Source tracing method		\	Visual recon			
Indicator test	ting			C	Chloride	and fluroride	
Pollutants ide	entified			S	3edimer	nt / spoil	
Source or ca	iuse			F	Public e	ntity	
Correction ar	nd elimina	tion methods		N	/litigate	d by City of Bellevue	

WORK LOG / NOTES:

Log date: 15-Dec-2016 7:14 am

Logged by: RGIBERSON

Description: Replaced 2 saddles- unscheduled shutdown

Called at 10:30am, arrived onsite to water flowing approx. 50gpm. Knocked on doors for unscheduled water main S/D, killed meters and throttled main but left on. Pumped out trench and exposed both saddles (1 is scheduled for replacement 12/15 for 1" upgrade, see WO). Shut down water main and replaced both saddles and rehooked to existing longside service. Water main off from 11:15am-2:15pm. Flushed at 50gpm for 75 minutes. Estimated water loss 6000 gallons. Ric 337

Log date: 16-Dec-2016 7:28 am

Logged by: MHOEL

Description: 12/15/16 The contractors billing info>

Attn: Ed Glen

Jay Marc Office - 7525 se 24th st Suite # 487 Mercer Island WA, 98040

This is for the contractor hitting the corp for the service line across the street at 10629 ne 26th st

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Work order number: Date Reported: Description:	654338 December 21, 2016 Test	2:11 pm	Status: Assigned to:	WAPPR JGOEMAN
REGULATORY: Best Mgmt Practices (E	SA):			HPA Required? DOE Called? Illicit Discharge? NPDES?
SPECIFICATIONS:				
Raining?			Υ	es
Precipitation in previo	us 24 hours			
Frequency				
Constituted a threat to	human healt or the er	vironment	t?	
Immediate response?				
Is the structure mappe	ed/inventoried?			
Investigated within 7 of	days?			
If suspected illicit con	nection, investigated w	ithin 21 da	ys?	
Final resolution of illic	it connection within six	months?		
How did you learn abo	out the problem?			
Source tracing metho	d			
Indicator testing				
Pollutants identified				
Source or cause				
Correction and elimina	ation methods			

WORK LOG / NOTES:

Log date: 21-Dec-2016 2:19 pm

Logged by: JGOEMAN

Description: Logs

I have done stuff today

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Description:

Work order number: Date Reported: Description:	654344 December 21, 2016 2:26 pm Follow up to 654338	Status: Assigned to:	WAPPR JGOEMAN	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? Illicit Discharge?	DOE Called?
SPECIFICATIONS:				
Raining?		١	'es	
Precipitation in previo	ous 24 hours			
Frequency				
Constituted a threat to	o human healt or the environmer	nt?		
Immediate response?)			
Is the structure mapp	ed/inventoried?			
Investigated within 7	days?			
If suspected illicit con	nection, investigated within 21 da	ays?		
Final resolution of illic	cit connection within six months?			
How did you learn ab	out the problem?			
Source tracing metho	d			
Indicator testing				
Pollutants identified				
Source or cause				
Correction and elimin	ation methods			
WORK LOG / NOTES:				
Log date:				_
Logged by:				

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	•			
Work order number: Date Reported: Description:	654707 December 27, 2016 6:47 am Car fire and fluids into catch	J	P NHOOF	
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	X DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		No		
Precipitation in previo	us 24 hours			
Frequency		One-tin	ne spill	
Constituted a threat to	human healt or the environmen	? Yes		
Immediate response?		Yes		
Is the structure mappe	ed/inventoried?	Yes		
Investigated within 7 of	days?	Yes		
If suspected illicit con	nection, investigated within 21 da	ys? Not app	olicable	
Final resolution of illic	it connection within six months?	Not app	olicable	
How did you learn abo	out the problem?	Staff re	ferral	
Source tracing metho	d	Visual ı	recon	
Indicator testing		Visual i	indicators	

WORK LOG / NOTES:

Pollutants identified

Source or cause

Log date: 27-Dec-2016 7:04 am

Logged by: CVANHOOF
Description: Response

Correction and elimination methods

Kris Nall with Transportation was notified by Norcom on Saturday morning at 5:15 of a car fire that created a discharge ir a catch basin.

Vehicle fluids

Mitigated by City of Bellevue

Vehicle

Kris called myself and Tony Shehab for notification and I took the response. The actual address was 808 106th Ave NE which is a private parking lot. There was residual on the pavement with no evidence in the curb catch basin (319458), but the fire department called it in as entering the basin.

The basin discharges into a 48" concrete pipe that is Meydenbauer Creek. There was no evidence in the flow which was checked at the high flow bypass, at the SE 3rd and SE 6th crossing.

An insert and boom were left in the structure for any residual and DOE was notified. Diamond Parking was also contacte and a voicemail was left for parking lot clean up.

The insert/boom were removed Tuesday morning with burnt soot and debris captured.

Log date: 03-Jan-2017 9:11 am

Logged by: CVANHOOF

Description: Follow Up

The parking was swept and debris has been removed. The insert and boom were also removed.

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COMP 654745 Work order number: Status: December 27, 2016 12:18 pm Assigned to: TMACFARLAN Date Reported: Sediment into Storm drain Description: **REGULATORY: HPA Required?** DOE Called? NPDES? Illicit Discharge? Best Mgmt Practices (ESA): **SPECIFICATIONS:** Yes Raining? Precipitation in previous 24 hours 0 Frequency One-time spill Yes Constituted a threat to human healt or the environment? Yes Immediate response? Yes Is the structure mapped/inventoried? Yes Investigated within 7 days? Not applicable If suspected illicit connection, investigated within 21 days? Yes Final resolution of illicit connection within six months? Staff referral How did you learn about the problem? Visual recon Source tracing method Visual indicators Indicator testing Sewage / septage Pollutants identified Source or cause Residential Mitigated by responsible party Correction and elimination methods **WORK LOG / NOTES:** 13-Jan-2017 7:38 am Log date: **TMACFARLAN** Logged by:

Description: Site visit

Visited the site. BMPs in place. Storm system still clean since streets cleaned it out. No further action.

Log date: 27-Dec-2016 1:03 pm

Logged by: TMACFARLAN

Description: Investigation

Email from staff, catch basin full of sediment. Landscaping occurring at residence. Exposed, bare soil uphill from city owned storm system Spoke with Homeowner about controlling runoff with staff, planting grass and BMPs.

Log date: 27-Dec-2016 1:09 pm

Logged by: TMACFARLAN

Description:

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Work order number: Date Reported: Description:	655067 December 30, 2016 6:00 am IDDE - Washing garbage con	•		
REGULATORY: Best Mgmt Practices (E	SA):		HPA Required? X Illicit Discharge?	DOE Called? NPDES?
SPECIFICATIONS:				
Raining?		N	lo	
Precipitation in previo	ous 24 hours			
Frequency		C	One-time spill	
Constituted a threat to	o human healt or the environmen	t? Y	'es	
Immediate response?		Y	'es	
Is the structure mapp	ed/inventoried?	Υ	'es	
Investigated within 7	days?	Υ	'es	
If suspected illicit con	nection, investigated within 21 da	ays? N	lot applicable	
Final resolution of illic	cit connection within six months?	N	lot applicable	
How did you learn ab	out the problem?	E	Business inspection	
Source tracing metho	d	V	isual recon	
Indicator testing		V	isual indicators	
Pollutants identified			Oumping / trash	
Source or cause		N	Multifamily	
Correction and elimin	ation methods	N	litigated by responsible party	

WORK LOG / NOTES:

Log date: 30-Dec-2016 6:03 am

Logged by: CVANHOOF

Description: Education and BMP implementation

Maintenance was washing out their trash bins at Main Street Flats which entered a private catch basin. They stopped th process once educated on where the system discharged to.

Checked the as-builts and found that they have some indoor drains that discharge to sanitary so their practice of washing bins will be moved into the trash room where water and in door drain are already located.

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PROJECT MEMO



TO: Catherine Drews, City of Bellevue

FROM: Brittany Port, AICP and Wayne E.

Carlson, AICP, LEED AP

DATE: March 9, 2017 **PROJECT NO**.: 2130786.30

PROJECT NAME: Bellevue LID Code Integration

SUBJECT: Project Summary Memorandum

INTRODUCTION

This memorandum is intended to be submitted with the City of Bellevue's NPDES Annual Report to summarize the City's compliance with Special Condition S5.C.4.f of the 2013-2018 NPDES Western Washington Phase II Municipal Stormwater Permit (Permit) that requires the integration of low impact development (LID) principles into local codes and enforceable standards.¹

This memorandum summarizes the project intent, staff outreach, the code and standards review process, public outreach, the codes and standards revision process, and the amendments that were adopted.

PROJECT INTENT

At the City's request, AHBL staff reviewed the Bellevue City Code (BCC) and Bellevue Land Use Code (LUC), as well as the City's other relevant enforceable documents and standards, for compliance with Special Condition S5.C.4.f of the 2013-2018 NPDES Western Washington Phase II Municipal Stormwater Permit (Permit).² The Permit requires that the City evaluate its development codes and standards to identify impediments to making low impact development (LID) the preferred and commonly used approach to stormwater management. In addition, Special Condition S5.C.4.f.i. of the Permit requires that the City demonstrate that its development code and standards "...minimize[s] impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations."

Because the Permit does not establish specific thresholds or standards for minimizing impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations, the City hired AHBL to help it address the requirements of Special Condition S5.5.4.f. of the Permit. Throughout the update process, AHBL staff relied on their professional judgement and experience in using and reviewing development codes and standards for jurisdictions throughout Western Washington to make their recommendations. The review and revision process was consistent with *Integrating LID in to Local Codes: A Guidebook for Local Governments* (Puget Sound Partnership 2012), which AHBL authored.

STAFF OUTREACH AND CODE AND STANDARDS REVIEW PROCESS

Throughout the process, AHBL staff worked with Catherine Drews, Assistant City Attorney, who was the Project Manager, and Paul Bucich, Assistant Director of Engineering for the City's Utilities Department. Collectively this group is the Project Team.

Kick-Off

Working with Catherine, AHBL staff facilitated two kick-off meetings in January 2014, for City staff who were directly involved in project review and code and policy review process. This included staff from a variety of disciplines, including Land Use, Utilities, Fire, Transportation and Right of Way, Parks, and Neighborhood

¹ The text of Special Condition S5.C.4.f of the 2013-2018 NPDES Western Washington Phase II Municipal Stormwater Permit (Permit) is found in Attachment I of this memorandum.

² The text of Special Condition S5.C.4.f of the 2013-2018 NPDES Western Washington Phase II Municipal Stormwater Permit (Permit) is found in Attachment I of this memorandum.



Outreach. During the kick-off meetings, AHBL staff presented an overview of the Permit requirements and discussed with staff preliminary code topics the Project Team could consider exploring as potential code amendments to ensure consistency with the intent and requirements of Special Condition S5.C.4.f

Opportunity Analysis

City staff made available to AHBL copies of the City's enforceable development codes, policies, and standards listed in Attachment II of this memorandum. AHBL staff then prepared an analysis that examined gaps or opportunities related to how well those codes, policies, and standards met the intent of Special Condition S5.C.4.f. of the Permit. The opportunity analysis identified opportunities to better align the City's codes and standards with LID principles.

AHBL staff found that the City's codes and standards were mostly supportive the objectives of Special Condition S5.C.4.f of the Permit and few barriers existed within the City's code to the use of LID, as evidenced by the number of LID facilities that have been installed in Bellevue prior to the code update work, and the City's other planning efforts such as the Environmental Stewardship Initiative which includes a 40% tree canopy goal citywide. Opportunities were identified to within the City's Comprehensive Plan, Land Use Code and Transportation Code and Design Standards to further support the requirements in Special Condition S5.C.4.f. Within the City's Comprehensive Plan, some minor changes were suggested to eliminate potential or perceived barriers to meeting the requirement. Amended or new policy language for was recommended for 16 policies in the Comprehensive Plan. Opportunities for amendments to Land Use Code and Transportation Codes were also identified related to the following:

- Land Use Code
 - Evaluate the use of LID principles (and BMPs) early in the site design process;
 - Reduce impervious surface coverage;
 - Preserve and enhance tree canopy:
 - o Improve options for clustering development
- Transportation Code and Design Standards
 - o Reduce impervious surfaces in road rights-of-way
 - Enhance tree canopy in transportation facilities

These identified opportunities formed the basis of the City's "Area of Focus" for the LID Principles Project, approved by the Bellevue City Council under the directive that any changes to the City's codes and standards be guided by the following principles:

- Bellevue Appropriate. Proposed amendments to Bellevue's development codes and standards will be
 area and context sensitive. A one-size-fits-all is inappropriate. Attention will be paid to the differing levels
 of urban development, watershed conditions, impervious surface coverage, tree canopy coverage, and
 areas of direct discharge. Proposed amendments, where feasible, will provide flexibility, incentives, and
 innovation in achieving the goal of making LID the preferred and commonly used approach to site
 development in Bellevue.
- Engage Stakeholders. Provide a public participation process that seeks and includes input from a wide range of stake holders. The process will provide opportunities for interested stakeholders to learn about LID principles, participate in developing options, and provide meaningful and informed comments.
- Maintain Bellevue's Compliance Record with the NPDES Stormwater Permit. The LID principles project shall be timely completed to ensure compliance with the requirement that amendments are effective by December 31, 2016.
- Build on Existing Information and Programs. The LID Principles Project will build on existing City
 information and programs to develop and evaluate options to make LID the preferred and commonly used
 approach to site development.
- Recognize and Seek to Balance Competing Needs. The LID Principles Project will recognize and seek to balance competing laws applicable to development and redevelopment, by considering and developing effective, innovative, flexible, and/or area-specific options. The LID Principles Project will also recognize





that supporting growth in urban areas is appropriate and that balancing environmental benefits with economic development goals is important.

Public Outreach

To respond to the Bellevue City Council's project principle of engaging stakeholders, AHBL prepared a Public Participation Plan that included numerous opportunities and methods for stakeholders to participate in the process and provide input on potential code and standard revisions. The outreach included:

- A website with educational information on the project, as well as an updated project schedule and links to
 project documents. Interested parties could register for alerts when new information or events were
 scheduled. Also, the public could send emails through the webpage and could directly leave comments
 using the webpage.
- The Project Team provided informational briefings on the project at public meetings to the following commissions:
 - o Bellevue City Council
 - o Planning Commission
 - o Environmental Services Commission
 - Transportation Commission
 - Parks and Community Services Board
 - East Bellevue Community Council
- Four public workshops held throughout the City to educate the public on the project and solicit public input on the "Areas of Focus."
- Four public open houses held throughout the City to solicit public input on the draft code and standard amendments.
- Meetings with stakeholder groups such as the Master Builders Association of King and Snohomish Counties.
- The Project Team utilized the City's social media resources, including Twitter, Facebook, and NextDoor, as well as traditional print media to keep the public informed about the project and upcoming events and meetings.

Over the course of the project, the Project Team received over 100 comments from the public.

CODE AND STANDARDS REVISIONS AND PUBLIC OUTREACH PROCESS

Code and Standards Revisions

Based on the results of the public workshops and staff review of the opportunity analysis, AHBL staff finalized the opportunity analysis and began drafting proposed amendments to City plans, regulations, and specifications. AHBL staff also reviewed how other neighboring cities addressed Permit requirements, while developing drafts of Bellevue-appropriate amendments to integrate LID principles into the City's codes and standards. These drafts utilized underlined and stricken code language for recommended amendments to the City of Bellevue's codes, policies, and enforceable standards.

Staff Review and Comment

AHBL met with City staff on several occasions to review the proposed amendments and solicit feedback on the draft code amendment language and topics. The Project Team formed small groups of City staff with particular expertise in each "Areas of Focus" topic. Small groups were convened to review impervious surface proposals, tree retention proposals, clustering proposals, and site design proposals. Staff members involved in reviewing codes and standards are included below by topic. AHBL staff then revised the amendments based on valuable staff feedback.





Participants Name	Job Title	Department	LID Principle Small Group
Bob Snyder	Building Plans Examiner	Development Services Department	Site Design Team
Brian Breedon	Operations & Maintenance Manager	Transportation	Impervious Surfaces Reduction Team
Chris Dreaney	Development Review Manger (retired)	Transportation	Clustering Team; Site Design Team
Dan Dewald	Park Resource Manager	Parks/Natural Resources	Tree Preservation & Enhancement Team
David Pyle	Senior Land Use Planner, Environmental Team	Development Services Department	Impervious Surfaces Reduction Team; Tree Preservation & Enhancement Team
David Wong	Associate Land Use Planner	Development Services Department	Tree Preservation & Enhancement Team
Erica Rhett	Senior Planner	Planning and Community Development	Impervious Surfaces Reduction Team
Ken Carlson	Fire Marshall	Fire	Impervious Surfaces Reduction Team; Clustering Team; Site Design Team
Kevin McDonald	Senior Planner	Transportation	Impervious Surfaces Reduction Team
Kit Paulsen	Watershed Planning Supervisor	Utilities/Engineering	Impervious Surfaces Reduction Team; Tree Preservation & Enhancement Team
Mark Dewey	Senior Utilities Review Professional	Utilities	Site Design Team
Melissa Kerson	Street Tree Program Forester	Parks	Tree Preservation & Enhancement Team
Michael Paine	Environmental Planning Manager (retired)	Development Services Department	Clustering Team
Mike McCormick- Huentelman	Neighborhood Outreach Manager	Planning and Community Development	Impervious Surfaces Reduction Team; Tree Preservation & Enhancement Team





Molly Johnson	Development Review Manager	Transportation	Impervious Surfaces Reduction Team; Tree Preservation & Enhancement Team
Nicholas Matz	Senior Planner	Planning and Community Development	Impervious Surfaces Reduction Team
Patricia (Trish) Beyer	Code Program Manager	Development Services Department	Impervious Surfaces Reduction Team
Patti Wilma/Bradley Calvert	Project Development Manager	Planning and Community Development	Impervious Surfaces Reduction Team
Paul Andersson	Environmental Compliance Strategy	Planning and Community Development	Tree Preservation & Enhancement Team
Rick Watson	Water Resource Engineer	Utilities/Engineering	Clustering Team
Sally Nichols	Senior Land Use Planner	Development Services Department	Tree Preservation & Enhancement Team
Scott MacDonald	Associate Planner	Planning and Community Development	Impervious Surfaces Reduction Team
Scott Taylor	Design/Construction Manager	Utilities	Site Design Team
Sean Wells	Development Review Manager	Utilities/Engineering	Clustering Team
Titus Butcher	Right-of-way Engineer	Transportation	Impervious Surfaces Reduction Team
Tom Kuykendall	Community Service Supervisor	Parks	Impervious Surfaces Reduction Team; Tree Preservation & Enhancement Team
Tom McFarlane	Clear & Grade Supervisor	Development Services Department	Tree Preservation & Enhancement Team; Clustering Team; Site Design Team

Public Review and Comment

Stakeholder involvement is an important element for the successful preparation of amendments to the City's codes and standards to facilitate the use of LID principles and BMPs. AHBL prepared public engagement materials such as boards, PowerPoint presentations, and other educational materials that were used during the public participation events such as the four public workshops and open houses. Some of the boards were





information, others were used as tools for soliciting public feedback. At the workshops and public open houses, AHBL and City staff solicited feedback on comment cards and through dot exercises.

Certain organizations were also targeted for feedback including the Bellevue Chamber of Commerce and the Master Builders Association of King and Snohomish Counties (MBA). At the request of the MBA, AHBL and City staff presented the code amendment proposals at one of their monthly meetings, and, following the briefing, convened interviews with several members for more in depth feedback on the proposals. At the Planning Commission Public Hearing on September 13, 2016, David Hoffman, King County Government Affairs Manager for the Master Builders spoke in favor of the code amendments as proposed by the Planning Commission, staff, and AHBL.

CODE ADOPTION PHASE

Adoption of Comprehensive Plan policy amendments occurred in the fall of 2014, as a part of the City's eight-year periodic comprehensive plan update.

Adoption of the LID code amendments began in Spring 2016 and culminated with adoption on November 21, 2016. The following summarizes the study sessions and public hearings before the Planning Commission, East Bellevue Community Council, Transportation Commission and City Council related to the Ordinances No. 6318, 6319, 6321 and 6323 (amending chapters 23.76, 14.60, 20.20, 20.25, Part 20.30D, 20.50, and 24.06 of the Bellevue City and Land Use Codes to comply with the National Pollution Discharge and Elimination System Western Washington Phase II Municipal Stormwater Permit):

- May 25, 2016: The Planning Commission held a study session to consider proposed code amendments to incorporate Low Impact Development principles and best management practices.
- June 2, 2016: City staff issued notice of application for the LID code amendments pursuant to the State Environmental Policy Act (SEPA). A Determination of Non-Significance under the State Environmental Policy Act (SEPA). The SEPA appeal period ended on October 31, 2016. No appeals were filed.
- June 7, 2016: The East Bellevue Community Council held a study session to consider proposed code amendments to incorporate Low Impact Development principles and best management practices as they relate to the jurisdiction of the East Bellevue Community Council.
- June 9, 2016: The Transportation Commission held a study session to consider the proposed amendments to the transportation code and standards to incorporate Low Impact Development principles and best management practices.
- June 13, 2016: Pursuant to the Washington State Growth Management Act, city staff issued a notice of intent to adopt land use code amendments, and provided 60 days for state agencies to review and comment on the proposed amendments.
- June 22, 2016: The Planning Commission held a second study session to consider proposed code amendments to incorporate Low Impact Development principles and best management practices.
- July 7, 2016: The City's Environmental Coordinator issued a Determination of Non-Significance under the State Environmental Policy Act (SEPA). No appeals were filed.
- July 13, 2016: The Planning Commission held a third study session to consider proposed code amendments to incorporate Low Impact Development principles and best management practices.
- July 14, 2016: The Transportation Commission held a public hearing on the proposed code amendments to the transportation code and standards to incorporate Low Impact Development principles and best





management practices. The Transportation Commission voted to recommend approval of the code amendments, as proposed, to the Bellevue City Council.

- July 27, 2016: The Planning Commission held a public hearing on the proposed code amendments to incorporate Low Impact Development principles and best management practices. The public hearing was continued until September 14, 2016.
- September 14, 2016: The Planning Commission continued the public hearing on the proposed code amendments to incorporate Low Impact Development principles and best management practices. In this hearing, the Planning Commission made some changes to the proposed amendments, and voted to not recommend amending the tree retention proposals in their transmittal to the Bellevue City Council. Instead, the Planning Commission recommended the Council consider waiting to adopt new tree retention requirements after completion of a city-wide planning initiative to determine desired tree canopy goals on a neighborhood by neighborhood basis. The Planning Commission then voted unanimously to recommend approval of the proposed code amendments, as amended at the Public Hearing, to the Bellevue City Council.
- October 10, 2016: a Council study session was held, and Council provided direction to staff related to proposed revisions to the amendment package.
- October 24, 2016: a second Council study session was held. Council directed staff to look into whether or not the impervious surface limit for non-residential uses in residential zones (including schools and churches) would still stand. Council also considered proposed code changes specific to LID best management practices, for the Storm and Surface Water Code (Ch. 24.06 BCC), and the Clearing and Grading Code (Ch. 23.76 BCC).
- November 21, 2016: the City Council adopted proposed code amendments incorporate Low Impact Development principles and best management practices.
- December 6, 2016: the East Bellevue Community Council adopted proposed code amendments to incorporate Low Impact Development principles.





ATTACHMENT I - PHASE II PERMIT REQUIREMENTS

From the Western Washington Phase II Municipal Stormwater Permit – August 1, 2013, Modified January 16, 2015:

S5. STORMWATER MANAGEMENT PROGRAM FOR CITIES, TOWNS, AND COUNTIES

[...]

C. The SWMP shall include the components listed below. To the extent allowable under state or federal law, all components are mandatory for city, town or county Permittees covered under this permit.

[...]

4. Controlling Runoff from New Development, Redevelopment and Construction Sites

[...]

- f. Low impact development code-related requirements.
- i. No later than December 31, 2016, 23 Permittees shall review, revise and make effective their local development-related codes, rules, standards, or other enforceable documents to incorporate and require LID principles and LID BMPs. [...]

The intent of the revisions shall be to make LID the preferred and commonly-used approach to site development. The revisions shall be designed to minimize impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations. Permittees shall conduct a similar review and revision process, and consider the range of issues, outlined in the following document: *Integrating LID into Local Codes: A Guidebook for Local Governments* (Puget Sound Partnership, 2012).

ii. [...], each Permittee shall submit a summary of the results of the review and revision process in (i) above with the annual report due no later than March 31, 2017. [...]

This summary shall include, at a minimum, a list of the participants (job title, brief job description, and department represented), the codes, rules, standards, and other enforceable documents reviewed, and the revisions made to those documents which incorporate and require LID principles and LID BMPs. The summary shall include existing requirements for LID principles and LID BMPs in development-related codes. The summary shall be organized as follows:

- (a) Measures to minimize impervious surfaces;
- (b) Measures to minimize loss of native vegetation; and
- (c) Other measures to minimize stormwater runoff.





ATTACHMENT II - CITY CODES AND STANDARDS REVIEWED

City of Bellevue Comprehensive Plan policies found in the following Elements in Volume 1:

Land Use

Utilities

Transportation

Environment

Parks, Open Space and Recreation

Urban Design

Housing

Economic Development

City of Bellevue Comprehensive Plan policies found in the following Subarea Plans in Volume 2:

Bel-Red

Downtown Bellevue

Newcastle

City of Bellevue Municipal Code

Title 1 General Provisions

Title 14 Transportation Guide

Title 20 Land Use Plan

Title 21 Comprehensive Plan

Title 22 Development Code

Title 23 Construction Code

Title 24 Utilities Code

Development Services Handouts

Fire Department Development Standards

Critical Areas Handbook

Clearing and Grading Development Standards

Inspection and Construction Guidelines

Transportation Design Standards

Utilities Surface Water Design Standards



Jurisdiction: Bellevue

Table 1 – Comprehensive Plan Policies Volume 1

Policy reference UT-13	Existing policy language N/A	Action taken to meet permit requirements Adopted new	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language Consider Low Impact Development principles to minimize impervious surfaces and	Impervious	Loss of native vegetation	Stormwater
		policy		native vegetation loss on all infrastructure improvement projects.		•	V
UT-22	Participate in regional watershed based efforts with the goals of achieving local watershed health and addressing Endangered Species Act issues, and strive to manage the city's storm and surface water system within a system wide, watershed based context.	Amended existing comp plan policy	Amended existing comprehensive plan policy to improve clarity, including separating these two independent issues into two sub-categories. Changing the second 'watershed" term to "drainage basin" provides consistency with NPDES permit terminology. Dropping the word 'city's' would better convey that the storm system is comprised of both public and private elements. The changed words avoid confusion and conflict with the language of the NPDES permit. Watershed-scale stormwater planning supports the goals of low impact development and Ecology's interest in watershed based analysis.				
UT-38	N/A	Adopted new policy	Connects the use of low impact development to how stormwater is managed.	Encourage the use of low impact development and stormwater best management practices to manage stormwater runoff, which may result in smaller facilities constructed on- and off-site for flow control, conveyance, and water quality.	✓	✓	

Policy reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
TR-139 (New)	N/A	Developed new comp plan policy	Developed new comprehensive policy because existing policy language in the Transportation Element does not address stormwater impacts of transportation facilities or Special Condition S5.C.4.f. The intent is to have a policy that addresses larger environmental protection (including stormwater management) while providing the basis for "balancing" statewide mandates that sometimes conflict in different areas of the City. Recent subarea plans, such as the Bel-Red Subarea Plan, do a good job of addressing these issues in the subarea, but a citywide policy would be good.	Develop the City's transportation system in a manner that minimizes environmental and neighborhood impacts, while addressing the City's long-term transportation and land use objectives.			
TR-144 (New)	N/A	Adopted new policy	Adopted new comprehensive policy because existing policy language in the Transportation Element does not address stormwater impacts of transportation facilities or Special Condition S5.C.4.f.	Incorporate natural drainage practices into transportation projects where effective and feasible.			✓
EN-46	N/A	Adopted new policy	Adopted new policy consistent with requirement of Phase II NPDES Permit for Western Washington	Make low impact development the preferred and commonly-used approach to site development to minimize impervious surfaces, native vegetation loss, and stormwater runoff.	✓	✓	✓
EN-49 (New)	N/A	Adopted new comp plan policy	Adopted new policy to encourage the use of low impact development through education and	Provide education and incentives to support the implementation of low impact development practices and holistic site planning.	√	√	√

Policy reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
			incentives.				
UD-9	Use site design, landscaping, and appropriate lighting to reduce the visual impact of parking lots to public areas.	Amended existing comp plan policy	Amended existing comprehensive policy to add language that encourages LID practices within parking lots in support of the site and building design policy for reducing the environmental impact of parking lots.	Use site design, water efficient landscaping, stormwater management practices and appropriate lighting to reduce the visual and environmental impact of parking lots to public areas.			✓
UD-20	Preserve and encourage open space as a dominant element of the community's character.	Amended existing comp plan policy	Amended existing comprehensive policy to encourage minimizing impervious surfaces within open spaces through the use of pervious pavements or limiting the amount of pavement.	Preserve and encourage open space as a dominant element of the community's character. Minimize paved surfaces within open spaces and utilize permeable surfaces where appropriate.	✓		√
UD 37	N/A	Adopted new policy	Adopted new policy that supports low impact development by reducing environmental impacts associated with large paved surfaces.	Use site design, water efficient landscaping and stormwater management practices to reduce the environmental impact of impervious surfaces.	✓	✓	✓
UD-38	Ensure continuous and ample sidewalks along principal, minor, and collector arterials which are integrated with abutting land uses.	Amended existing comp plan policy	Amended existing comprehensive policy to encourage the use of pervious pavements for sidewalk construction.	Ensure continuous and ample sidewalks along principal, minor, and collector arterials which are integrated with abutting land uses. Minimize paved surfaces and utilize permeable surfaces where appropriate.	√		✓
UD-41 (New)	N/A	Adopted new policy	Adopted new comprehensive policy to acknowledge that the City's neighborhood plans reflect each neighborhood's unique existing conditions and visions for future development and redevelopment.	Design context appropriate stormwater management facilities that reflect the unique character and design elements of the neighborhood in which the site is situated.			✓

Policy reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
UD-42 (New)	N/A	Adopted new policy	Adopted new comprehensive plan policy because low impact development techniques can often best be applied when evaluated early and in conjunction with site design and development decisions.	Encourage consideration of low impact development techniques early in the urban site design and development process.	•	✓	✓
UD-75	Use urban design features to soften the public right-of-way and sidewalk environment as appropriate. These features include, but are not limited to, street trees, landscaping, water features, raised planter boxes, potted plantings, pedestrian-scaled lighting, street furniture, paving treatments, medians, and the separation of pedestrians from traffic.	Amended existing comp plan policy	Amended existing comprehensive policy to encourage the use of stormwater management facilities within the right-ofway and sidewalk.	Use urban design features to soften the public right-of-way and sidewalk environment as appropriate. These features include, but are not limited to, street trees, landscaping, water features, raised planter boxes, potted plantings, green stormwater infrastructure, pedestrian-scaled lighting, street furniture, paving treatments, medians, and the separation of pedestrians from traffic.			√

Table 2 -Transportation Code Chapter 14.30 Right of Way Use

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
14.30.080 Right-of-way	4. Type C permits include but are not limited to:	No changes/	No revisions proposed;	N/A			
use permits.	a. Boring;	action taken	discussion with staff was had				
	b. Culverts;		regarding whether LID				
	c. Curb cuts/driveways;		drainage facilities are				
	d. Drainage facilities;		included within Type C				
	e. Fences;		permits. Existing code				
	f. Landscaping;		language does not preclude				
	g. Painting;		the use of LID.				
	h. Sidewalks;						
	i. Street trenching;						
	j. Utility installation.						

Table 3 - Transportation Code Chapter 14.60 Transportation Development Code

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
14.60.110 Street frontage improvements	A. The installation of street frontage improvements is required prior to issuance of a certificate of occupancy for new construction other than single-family homes, or prior to final approval for subdivisions, short subdivisions and PUDs. For additions and remodels to existing buildings see Section 20.20.560 of the Land Use Code. B. Complete street frontage improvements shall be installed along the entire street frontage of the property at the sole cost of the permittee as directed by the review engineer. Street frontage improvements may include curb, gutter, sidewalk, storm drainage, street lighting, traffic signal equipment, utility installation or relocation, landscaping strip, street trees and landscaping, irrigation, street widening, and channelization. Beyond the property frontage, the permittee shall provide ramps from the new sidewalk or walkway to the existing shoulder, and pavement and channelization tapering back to the existing pavement and channelization as needed for safety.	Amended existing code	Amended code to clarify that storm drainage frontage improvements may include bioretention swales or other vegetation-based LID BMPs.	A. The installation of street frontage improvements is required prior to issuance of a certificate of occupancy for new construction other than single-family homes, or prior to final approval for subdivisions, short subdivisions and PUDs. For additions and remodels to existing buildings see Section 20.20.560 of the Land Use Code. B. Complete street frontage improvements shall be installed along the entire street frontage of the property at the sole cost of the permittee as directed by the review engineer. Street frontage improvements may include curb, gutter, sidewalk, storm drainage, street lighting, traffic signal equipment, utility installation or relocation, landscaping strip, street trees and landscaping, irrigation, street widening, and channelization. Storm drainage may include bioretention swales or other vegetation-based LID BMPs. Beyond the property frontage, the permittee shall provide ramps from the new sidewalk or walkway to the existing shoulder, and pavement and channelization tapering back to the existing pavement and channelization as needed for safety.	•		✓
14.60.120 Landscaping in right-of-way, easements and access tracts.	 C. Preservation of Existing Street Trees and Landscaping. 1. Retention of existing vegetation may be required along city streets. 2. Wherever it is necessary to remove or relocate plant materials from the right-of-way in connection with the widening of the street or highway, the paving of a sidewalk, or the installation of ingress or egress, the property owner shall replant such trees or replace them according to city standards. 3. Any landscaping in the right-of-way which is disturbed by construction activity on private property shall be replaced or restored to its original condition by the property owner. 	Amended existing code	Amended code to require the use of native plant species when retention of the existing vegetation is not feasible.	C. Preservation of Existing Street Trees and Landscaping. 1. Retention of existing vegetation may be required along city streets. When retention is not feasible, native plant species, or species with a proven ability to survive in an urban environment are preferred for landscaping. 2. Wherever it is necessary to remove or relocate plant materials from the right-of-way in connection with the widening of the street or highway, the paving of a sidewalk, or the installation of ingress or egress, the property owner shall replant such trees or replace them according to city standards. 3. Any landscaping in the right-of-way which is disturbed by construction activity on private property shall be replaced or restored to its original condition by the property owner.		✓	√
14.60.130 Private roads.	A. Private roads shall be contained in an easement or tract and will be allowed when: 1. A covenant that provides for maintenance and repair of the private road by property owners has been approved by the city and recorded with King County; and 2. The covenant includes a condition that the private road will remain open at all times for emergency and public service vehicles; and 3. The private road would not hinder public street circulation; and 4. At least one of the following conditions exists: a. The road would ultimately serve no fewer than three lots and no more than nine lots; or b. The road would ultimately serve more than nine lots, and the review engineer and the fire marshal determine that due to physical site constraints or preexisting development no other reasonable access is available. In addition, the proposed private road would be adequate for transportation and fire access needs, and the private road would be compatible with the surrounding neighborhood character; or c. The private road would be part of a commercial or residential planned unit development; or d. The private road would serve commercial or industrial facilities where no circulation continuity is necessary. 5. Absent any of the above, public streets are required. B. The design and construction of private roads shall conform to the requirements of the transportation department design manual and the fire department development	No changes/ action taken	No revisions proposed; existing code language addresses the permit requirements by allowing the use of private roads for developments of 3 to 9 lots, less than 3 lots - combined driveways are to be utilized. Private road widths are specified in the Transportation Design Manual and requirements can be modified by the Director.	N/A			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
14.60.150 Driveways.	standards. C. Private roads shall be designed such that vehicles attempting to enter the private road will not impede vehicles in the travel lane of the public street. D. Combined vehicular access for adjoining properties is encouraged. Joint access shall be established in a tract or easement. E. Access onto arterial streets from private roads may be denied at the discretion of the review engineer if alternate access is available. F. The continued used of a preexisting private road is not guaranteed with the development of a site. G. All abandoned private roads on the street frontage to be improved shall be removed and new curb, gutter and sidewalk shall be installed. H. Private road grade and configuration shall accommodate future street widening as described in adopted city plans and codes to prevent the need for major private road reconstruction. I. No private road shall be approved where undesirable impacts, such as vehicles backing onto the public sidewalk or street, will occur. J. Left turns to and from a private road may be restricted either at the time of development or in the future if such maneuvers are found by the city to be hazardous. K. The requirements of this section may be modified by the director if: 1. The modification is reasonable and necessary for development of the property; and 2. The modification will result in more efficient access to and circulation within the property; and 3. The modification will not create a hazardous condition for motorists or pedestrians. C. Combined driveways for adjoining properties are encouraged. Combined driveways	No changes/	No revisions proposed;	N/A			
	or joint access shall be established in a tract or easement.	action taken	existing code language addresses the permit requirements by allowing the use of combined driveways for reducing impervious surfaces.				
14.60.170 Street ends.	C. Where the turnaround facility is a circular turnaround a landscaped island delineated by curbing shall be provided in the circular turnaround by the developer. The landscaping shall be maintained by the homeowners' association or adjacent property owners. The developer shall record an agreement to ensure maintenance of the landscaping, either with the recording of the final plat or as a separate document if the development is occurring outside a plat.	Amended existing code	Amended existing code to allow bioretention swales and LID BMPs to be located within landscaped islands.	C. Where the turnaround facility is a circular turnaround a landscaped island delineated by curbing shall be provided in the circular turnaround by the developer. Bioretention swales or other vegetation-based LID BMPs may be located in the landscaped island. The landscaping shall be maintained by the homeowners' association or adjacent property owners. The developer shall record an agreement to ensure maintenance of the landscaping, either with the recording of the final plat or as a separate document if the development is occurring outside a plat.	√		✓
14.60.190 Nonmotorized facilities.	 D. A paved path may be provided in lieu of cement concrete sidewalk when: 1. The paved path is determined by the city to be of a temporary nature; or 2. The city determines that soil or topographic conditions dictate a flexible pavement; or 3. The Pedestrian and Bicycle Transportation Plan or other City publications and studies indicate that neighborhood character does not warrant cement concrete sidewalks. 	No changes/ action taken	No revisions proposed; existing code language does not preclude the use of alternative paving techniques for sidewalks.	N/A	✓		

Table 4 - Land Use Code Chapter 20.20 - General Development Requirements

Code	e reference				Evic	ting no	nliev la	anguag	10					Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.				Ата	nded c	ode la	nguag	10					Impervious surfaces	Loss of native vegetation	Stormwater runoff
	0.20.010 - Uses		RESI	DENTIA		ung pu	ilcy ia	iliguag	,					Amended	Amended existing code to		RESII	DENTIA		iueu c	oue ia	iiguag	,e				1			
	use districts onal	LAND USE CLASSIFICATION		R- 1.8	R- 2.5	R- 3.5	R-4	R-5	R- 7.5 *	R- 10	R- 15	R- 20	R- 30	existing code	reduce the amount of impervious surfaces allowed by zone, and institute a limit	LAND USE CLASSIFICATION		R- 1.8	R- 2.5	R- 3.5	R-4	R-5	R- 7.5 *	R- 10	R- 15	R- 20	R- 30	✓	√	√
Requirer	inents	DIMENSIONS	(43)	(43)	(43)	(43)	(43)	(43)	(43)						on the application of hard	DIMENSIONS	(43)	(43)	(43)	(43)	(43)	(43)	(43)					'		
		Maximum Lot Coverage by Structures (percent) (13) (14) (16) (26) (27) (37) (39)	35	35	35	35	35	40	40	35	35	35	35		surfaces, which, previously, were limited only by a "greenspace factor" in the residential zones, allowing for a majority of a site to be	Maximum Lot Coverage by Structures (percent) (13) (14) (16) (26) (27) (37) (39)	35	35	35	35	35	40	40	35	35	35	35			
		Maximum Impervious Sur- face (percent) (35) (37) (39)	50 (36)	50 (36)	50 (36)	50 (36)	50 (36)	55 (36)	55 (36)	80	80	80	80		covered in hard surfaces, thus limiting space for vegetation. I If a site cannot infiltrate per criteria in the SWMMWW, impervious	Maximum Hard Surface Coverage (percent) (37) (39) (47)	<u>75</u> (36)	<u>75</u> (36)	<u>75</u> (36)	<u>75</u> (36)	<u>75</u> (36)	<u>80</u> (36)	<u>80</u> (36)	<u>90</u>	<u>90</u>	<u>90</u>	<u>90</u>			
		LAND USE CLASSIFICATION DIMENSIONS	(8, 21)	(8, 21)	OL B (8, 21)	(8, 21)	(8, 21)	(8, 21)	(8, 21)	F1 (28)	F2 (21, 31)	(21, 31)	DN TN (7)		surface limits return to the previously allowed coverage limits.	Maximum Impervious Surface (percent) (35) (37) (39) Alternative	50 45(3 6)	50 45 ⁽³ 6)	50 45 ⁽³ 6)	50 <u>45</u> (3 6)	50 45 ⁽³ 6)	55 50 ⁽³ 6)	55 50 ⁽³ 6)	80 <u>65</u>	80 <u>65</u>	80 <u>65</u>	80 <u>65</u>			
		Maximum Lot Coverage by Structures (percent) (13) (14)	35 (24)	35 (24)	35	50		35			35	40				Maximum Impervious Surface (percent) (35) (37) (39)(48)	<u>50</u> (36)	<u>50</u> (36)	<u>50</u> (36)	<u>50</u> (36)	<u>50</u> (36)	<u>55</u> (36)	<u>55</u> (36)	<u>80</u>	<u>80</u>	<u>80</u>	<u>80</u>			
		Maximum Impervious Sur- face (percent)	80	80	80	85	85	80	85		80	80				LAND USE CLASSIFICATION DIMENSIONS	PO (8, 21)	(8, 21)	OL B (8, 21)	(8, 21)	(8, 21)	NB (8, 21)	(8, 21)	F1 (28)	F2 (21, 31)	F3 (21, 31)	DN TN (7)			
		(36) Impervious s uses and for shall be 80 po (37) Maximum im	new a ercent	llowed	l nonre	esident	ial use	es in th	nese re	sident	ial lan	d use d	listrict	5		Maximum Lot Coverage by Structures (percent) (13) (14) (16)	35 (24)	35 (24)	35	50		35			35 (24)	40 (24)				
		independent structures ar unless such s	e inclu	ıded in	the ca	alculat	ion of	total n	naximı	ım imp		_	•			Maximum Hard Surface Cover- age (37) (47)	<u>85</u>	<u>85</u>	<u>85</u>	<u>90</u>	<u>85</u>	<u>80</u>	<u>85</u>		<u>85</u>	<u>85</u>				
		umess such s	il acti	i es alt	- EXCE	Jieu u	nuci L	.00 20.	.20.40(<i>.</i>						Maximum Impervious Sur- face (percent) (35) (37) (39)	80 <u>60</u>	80 <u>60</u>	80 <u>60</u>	85 <u>65</u>	85 65	80 <u>60</u>	85 <u>65</u>		80 <u>60</u>	80 <u>60</u>				
																Alternative Maximum Impervious Surface (percent) (35) (37)(48)	80	80	<u>80</u>	<u>85</u>	<u>85</u>	<u>80</u>	<u>85</u>		80	80				

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
				 (38) Impervious sSurface limits for legally established nonconforming nonresidential uses and for new allowed nonresidential uses in these residential land use districts shall be 80 percent. (39) Maximum hard surface, maximum impervious surface and maximum lot coverage by structures are independent limitations on allowed development. All areas of lot coverage by structures are included in the calculation of total maximum impervious surface, unless such structures are excepted under LUC 20.20.460. All areas of impervious surface coverage shall be included in the calculation of total maximum hard surface coverage. [] (47) See LUC 20.20.425 for exceptions and performance standards relating to hard surfaces. (48) Maximum impervious surface limit only for sites where the use of permeable surfacing techniques is determined to be infeasible according to the criteria in the 2014 Department of Ecology Stormwater Management Manual for Western Washington, now or as hereafter amended. 			
20.20.025 Intrusions into required setbacks.	A. Signs, Marquees and Awnings. [] B. Garages/Carports on Slopes. [] C. Minor Building Elements. [] D. Rockeries and Retaining Walls. [] E. Underground Buildings and Buildings Constructed Partially Below Grade. []	Amended existing code	Amended existing code to ensure LID BMPs may be utilized within required setbacks.	A. Signs, Marquees and Awnings. [] B. Garages/Carports on Slopes. [] C. Minor Building Elements. [] D. Rockeries and Retaining Walls. [] E. Underground Buildings and Buildings Constructed Partially Below Grade. [] F. Stormwater BMPs. Where feasible, stormwater BMPs, as required by the 2014 Department of Ecology Stormwater Management Manual for Western Washington, now or as hereafter amended, may be located within setbacks required in LUC 20.20.010, provided they conform to the setback requirements in the City of Bellevue Storm and Surface Water Engineering Standards, now or hereafter amended.			
20.20.425 Hard surface.	N/A	Added new code section	Added new code section to define "hard surface" for the purpose of the new coverage limit in LUC 20.20.010.	A. Purpose. Limits on the total amount of hard surfaces associated with site development are desirable to minimize vegetation loss and limit stormwater runoff, which are impacted by the increased level of surface flow generated by hard surfaces. Live plant foliage and groundcover intercept stormwater by retaining or slowing the flow of precipitation to the ground, and their roots protect soil from erosion. Preservation of naturally vegetated areas is a passive stormwater management tool that effectively reduces watershed function deterioration. B. Applicability. Hard surfaces are defined in Chapter 20.50 LUC, and shall include all surfaces considered impervious under LUC 20.20.460, as well as permeable pavement surfaces and vegetated roofs. The hard surface limits contained in LUC 20.20.010	√	√	✓

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Impervious surfaces Loss of native vegetation stormwater runoff
Code reference	existing policy language	requirements	explain why.	and the standards of this section shall be imposed any time a permit, approval, or
				review including land alteration or land development including subdivisions, short
				subdivisions or planned unit developments, a change in lot coverage, or a change
				in the area devoted to parking and circulation is required by this Code, or by the
				International Building Code.
				C. Exemptions.
				The following are exempted from determining maximum hard surface. These
				exemptions do not apply to any other Land Use Code requirement, including
				setbacks and limits on maximum lot coverage by structure, building code, utilities
				code or other applicable City of Bellevue codes or regulations.
				1. Decks/Platforms. Decks and platforms constructed with gaps measuring one-
				eighth inch or greater between boards, so long as the surface below the deck
				or platform is pervious;
				2. Rockeries/Retaining Walls. Rockeries and retaining walls shall be exempt from
				the maximum impervious surface limits;
				3. Stabilization Measures. Shoreline stabilization measures shall be exempt from the maximum impervious surface limits; and
				4. Landscape Features. Fences, arbors with lattice or open roof materials and
				similar structures, individual stepping stones placed in the ground but not
				cemented or held together with an impervious material, and organic mulch
				shall be exempt from the maximum impervious surface limits.
				D. Performance Standards.
				1. Design shall minimize topographic modification. Changes in existing grade
				outside the building footprint shall be minimized. Excavation shall not exceed
				10 feet. Fill shall not exceed five feet subject to the following provisions: all fill
				in excess of four feet shall be engineered; and engineered fill may be
				approved in exceptional circumstances to exceed five feet to a maximum of
				eight feet. Exceptional circumstances are: (a) instances where driveway access
				would exceed 15 percent slope if additional fill retained by the building
				foundation is not permitted; or (2) where the five-foot fill maximum generally
				is observed but limited additional fill is necessary to accommodate localized
				variations in topography. 2. High-value natural areas, which include, but are not limited to, retained
				significant trees and their understory and areas of native vegetation, shall be
				identified during site development. Locations of buildings, roads and
				infrastructure shall not impact high-value natural areas. Retained significant
				trees and their understory and areas of native vegetation shall be fenced and
				adequately protected during construction, consistent with the provisions in
				Chapter 23.76 BCC. Native plants should be salvaged from areas to be cleared
				and transplanted to other areas of the site where feasible.
				E. Maintenance and Assurance.
				Pervious pavement and other hard surface techniques designed to mimic shall be
				designed by a professional engineer licensed by the State of Washington and the
				plans are approved by the Director. The Director may require a maintenance plan
				and long-term performance assurance device to ensure the continued function of
20.20.460.1				the pervious pavement or other technique.
1	A. Purpose	Amended	Amended existing code to	A. Purpose
Surface	Limits on the total amount of impervious surfaces associated with site development are desirable to protect critical areas, which are impacted by the	existing code	require that permeable surfaces be included in the	Limits on the total amount of impervious surfaces associated with site
	increased levels and rates of surface flow generated by impervious surfaces.		calculation of hard surface	development are desirable to protect critical areas <u>and limit stormwater runoff</u> , which are impacted by the increased levels and rates of surface flow generated by
	increased levels and rates of surface now generated by impervious surfaces.		carculation of flatu surface	which are impacted by the increased levels and rates of surface flow generated by

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.		Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Code reference	[] F. Existing Impervious Surfaces. Impervious surfaces legally established on a site prior to August 1, 2006, and which exceed the limits set forth in LUC 20.20.010 and Chapter 20.25 LUC shall not be considered nonconforming. Proposals to increase impervious surface on a site shall conform to the limits of LUC 20.20.010 and Chapter 20.25 LUC; where a site already exceeds the allowed amount of impervious surface, the additional impervious surface shall not be approved unless an equal amount of existing impervious surface is removed such that the net amount of impervious surface is unchanged. G. Innovative Techniques. Surfaces paved with pervious permeable pavement or other innovative techniques designed to mimic the function of a pervious surface shall not be included in the calculation of impervious surface areas, so long as the technique is designed by a professional engineer licensed by the State of Washington and the plans are approved by the Director. The Director may require a maintenance plan and long-term performance assurance device to ensure the continued function of the pervious pavement or other technique	requirements	coverage and to include provisions for lots that may be nonconforming due to reduced impervious surface limits.		impervious surfaces. [] Existing Impervious Surfaces. Impervious surfaces legally established on a site prior to August 1, 2006 December 31, 2016, and which exceed the limits set forth in LUC 20.20.010 and Chapter 20.25 LUC shall not be considered nonconforming. Proposals to increase impervious surface on a site shall conform to the limits of LUC 20.20.010 and Chapter 20.25 LUC; where a site already exceeds the allowed amount of impervious surface, the additional impervious surface shall not be approved unless an equal amount of existing impervious surface is removed such that the net amount of impervious surface is unchanged. Innovative Techniques. Surfaces paved with pervious permeable pavement or other innovative techniques designed to mimic the function of a pervious surface shall not be included in the calculation of impervious surface areas, so long as the technique is designed by a professional engineer licensed by the State of Washington and the plans are approved by the Director. These surfaces, however, shall be included in the calculation of maximum hard surface areas. The Director may require a maintenance plan and long-term performance assurance device to ensure the continued function of the pervious permeable pavement or other technique			
20.20.520 Landscape Development	A. Purpose Landscape development, including retention of significant trees, as required by this section is necessary to maintain and protect property values, to enhance the visual appearance of the City, to preserve the natural wooded character of the Pacific Northwest, to promote utilization of natural systems, to reduce the impacts of development on the storm drainage system and water resources, and to provide a better transition between the various land uses permitted in the City. B. Applicability The requirements of this section shall be imposed any time a permit, approval, or review including land alteration or land development including subdivisions, short subdivisions or planned unit developments, a change in lot coverage or impervious surface, or a change in the area devoted to parking and circulation is required by this Code, or by the International Building Code, as adopted and amended by the City of Bellevue. However, this section does not apply to a permit for a single-family dwelling, unless restrictions on the removal of significant trees on individual single-family lots have been imposed through prior City approval. [] F. Site Landscaping [] 6. Existing Vegetation in Lieu of Landscape Development. If the proposal is located within the Critical Areas Overlay District, the Director shall waive the planting requirements of paragraphs F.1 and F.2 of this section and shall require the use of native vegetation that exists within a critical area or within a critical area buffer in lieu of landscape development if the width of that existing vegetated area equals at least twice the dimension required by paragraph F.1 or F.2 of this section. Supplemental landscaping may be added adjacent to a setback to create the necessary width. [] I. Species Choice The applicant shall utilize plant materials which complement the natural character	No changes/ action taken	No revisions proposed; existing code language requires the use of native plant species.	N/	·			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	of the Pacific Northwest, and which are adaptable to the climatic, topographic, and hydrologic characteristics of the site, and shall include at least 50 percent native species in the required plantings. If the subject property is within the Critical Areas Overlay District, the applicant shall utilize plant species as specified by the Director which enhance that critical area and critical area buffer. In selecting species, the applicant should utilize plant materials which reduce or eliminate the need for fertilizers, herbicides, or other chemical controls, especially for properties within the Critical Areas Overlay District. Plant materials may not include noxious weeds or species, as designated by the Director. J. Alternative Landscaping Option 1. The applicant may request a modification of the landscaping requirements set forth in subsections E through I of this section; provided, however, that modification of the provisions of paragraph F.6 of this section may not allow disturbance of a critical area or critical area buffer. 2. The Director may administratively approve a modification of the landscaping requirements of this chapter if: a. The proposed landscaping represents an equal or better result than that which could be achieved by strictly following the requirements of this section; and b. The proposed landscaping complies with the stated purpose of this section; and c. If a modification of any paragraph excluding subsection E of this section is requested, the proposed landscaping either: i. Incorporates the increased retention of significant trees and naturally occurring undergrowth; or ii. Better accommodates or improves the existing physical conditions of the subject property; or iii. Incorporates elements to provide for wind protection or to maintain solar access; or iv. Incorporates elements to provide for wind protection or to maintain solar access; or iv. Incorporates elements to provide for wind protection or to maintain area and critical area buffer from uses on the site, including p						
20.20.590 Parking, circulation, and walkway requirements	K. Parking Area and Circulation Improvements and Design 1. Materials. A parking and circulation area must be hard-surfaced and conform to any applicable City of Bellevue Development Standards as now or hereafter amended. For purposes of this section, the term hard-surfaced includes pavers, stones, bricks or other similar materials placed to support vehicle circulation, but also allow rain and other water to penetrate the surface (i.e., "grasscrete"). Hard-surfaced also includes innovative pavement techniques approved pursuant to LUC 20.20.460.G. Existing legally established parking areas within critical areas and critical area buffers are exempt from the requirement to use hard-surfaced materials. The Director of the Development Services Department may approve a gravel surface for parking and circulation areas used on a temporary basis during construction pursuant to paragraph	No changes/ action taken	No revisions proposed; existing code language permits pervious materials in hard-surface parking lot material requirements.	N/A	✓		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	K.10 of this section.						
20.20.590 Parking, circulation, and walkway requirements	K. Parking Area and Circulation Improvements and Design 8. Internal Walkways c. Design Criteria. Except as otherwise specified in Part 20.25A LUC, internal walkways provided pursuant to this section must be designed and installed in conformance with the following: i. Surface Materials. Internal walkways must be paved with hard-surfaced material such as concrete, asphalt, stone, brick, tile, etc. Only nonskid paving may be used in walkway construction.	Amended existing code	Amended existing code to allow internal walkways to be paved with permeable pavement.	K. Parking Area and Circulation Improvements and Design 8. Internal Walkways c. Design Criteria. Except as otherwise specified in Part 20.25A LUC, internal walkways provided pursuant to this section must be designed and installed in conformance with the following: i. Surface Materials. Internal walkways must be paved with hard-surfaced material such as concrete, asphalt, stone, brick, tile, permeable pavement etc. Only nonskid paving may be used in walkway construction.	✓		
20.20.900 Tree retention and replacement	A. Purpose. Retention of significant trees as required by this section is necessary to maintain and protect property values, to enhance the visual appearance of the City, to preserve the natural wooded character of the Pacific Northwest, to promote utilization of natural systems, to reduce the impacts of development on the storm drainage system and water resources, and to provide a better transition between the various land uses permitted in the City.	No changes/ action taken	No revisions proposed; existing code language identifies impacts to the storm drainage system and water resources as one of the main reasons to retain native vegetation.	N/A		√	
20.20.900 Tree retention and replacement	D. Retention of Significant Trees for Subdivisions, Short Subdivisions, Planned Unit Development, Change in Lot Coverage, or Change in the Area Devoted to Parking and Circulation, Excluding Areas Located in the R-1 Land Use District in the Bridle Trails Subarea and for New or Expanding Single-Family Structures. 1. Perimeter Landscaping Area. In the required perimeter landscaping area, as set forth in LUC 20.20.520.F.1, the applicant shall retain all significant trees which will not constitute a safety hazard. For properties located in Bel-Red Land Use Districts, refer to perimeter landscape development at LUC 20.25D.110. 2. Site Interior. a. In areas of the site other than the required perimeter landscaping area, the applicant must retain at least 15 percent of the diameter inches of the significant trees existing in this area; provided, that alder and cottonwood trees' diameter inches shall be discounted by a factor of 0.5. In applying the requirement for retention of significant trees, the Director shall consider the preservation of the following types of significant trees a priority: i. Healthy significant trees over 60 feet in height; ii. Significant trees which form a continuous canopy; iii. Significant trees which contribute to the character of the environment, and do not constitute a safety hazard; iv. Significant trees which provide winter wind protection or summer shade; v. Groups of significant trees which create a distinctive skyline feature; and vi. Significant trees in areas of steep slopes or adjacent to watercourses or wetlands. b. The Director may approve retention of trees which do not meet the definition of significant trees as a contribution toward the sum of the diameter inches required under subsection D.2.a of this section if a group of trees and its associated undergrowth can be preserved.	No changes/ action taken	No revisions proposed; existing code language requires the retention of significant trees during development.	N/A			

Code vefevence	Fuiating maligular gage	Action taken to meet permit	Describe revision(s) made to meet permit requirements OR if no revision(s) were made,		surfaces	Loss of native vegetation	Stormwater runoff
Code reference	Existing policy language 3. For subdivisions, short subdivisions, and planned unit developments, the applicant	requirements	explain why.	Amended code language			
	shall retain a minimum of 30 percent of the diameter inches of significant trees existing on the total site area of the development; provided, that alder and cottonwood trees' diameter inches shall be discounted by a factor of 0.5. 4. Exemption. The provisions of this subsection which require retention of significant						
	trees are not applicable in any Downtown Land Use District. 5. The applicant shall utilize tree protection techniques approved by the Director during land alteration and construction in order to provide for the continual healthy life of retained significant trees.						
	6. Reduced Parking Bonus. If the proposed landscape plan incorporates the retention of significant trees above that required by this section, the Director may approve a reduction of up to 10 percent of the required number of parking spaces if adequate parking will remain on the subject property, and if land area for the required number						
20.20.900 Tree	of spaces remains available for future development on the subject property. E. Retention of Significant Trees in the R-1 Land Use District in the Bridle Trails Subarea	No changes/	No revisions proposed;	N/A			
retention and replacement	for any Type of Land Alteration or Development. 1. Permit Required. As required by BCC 23.76.025.A.7, a clearing and grading permit must be obtained from the City prior to the removal of any significant tree from any lot in the R-1 Land Use District in the Bridle Trails Subarea. The applicant may request a	action taken	existing code language requires the retention of significant trees on all R-1 lots in Bridle Trails and			•	
	vegetation management plan to cover all proposed tree removal activities within a three-year period. In addition, for the removal of more than two significant trees within any three-year period, the requirements of subsections E.2 and E.3 below apply. 2. Perimeter Tree Retention Requirement. For all lots in the R-1 Land Use District in the		during development.				
	Bridle Trails Subarea, all significant trees which do not constitute a safety hazard within the first 20 feet adjacent to all property lines shall be retained. Area devoted to access and sight areas as defined in the Transportation Code (Chapter 14.06 BCC), and area to be cleared for required roads, utilities, sidewalks, trails, or storm drainage						
	improvements is exempt from this requirement. In the event this requirement conflicts with minimum setback requirements for structures (LUC 20.20.010), the Alternative Tree Retention Option (subsection G of this section) may be used to allow						
	development consistent with the setbacks established under LUC 20.20.010. 3. Site Interior Tree Retention Requirement. a. In addition to the required perimeter tree retention area, at least 25 percent of the						
	cumulative diameter inches of existing significant trees must be retained; provided, that alder and cottonwood trees' diameter inches shall be discounted by a factor of 0.5.						
	b. The Director may approve retention of trees which do not meet the definition of significant trees as a contribution toward the sum of the diameter inches required under subsection E.3.a of this section if a group of trees and its associated undergrowth can be preserved.						
	4. Tree Replacement Requirement. On any lot with eight or less significant trees, a planting plan showing a one-to-one ratio of replacement trees is required. Trees must be a minimum of six feet in height at planting.						
	F. Retention of Significant Trees for New or Expanding Single-Family Structures Excluding Single-Family Structures Located in the R-1 Land Use District in the Bridle Trails Subarea.						
	1. Site Area. For new single-family structures or additions to impervious surface areas that exceed 20 percent when located on a single-family lot developed with a residential use, the applicant shall retain a minimum of 30 percent of the diameter inches of significant trees existing in the site area; provided, that alder and cottonwood trees'						

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Sinciples of the state of the s	surfaces Loss of native	Stormwater runoff
	diameter inches shall be discounted by a factor of 0.5. In applying the requirement for retention of significant trees, the Director shall consider the preservation of the following types of significant trees a priority: a. Healthy significant trees over 60 feet in height; b. Significant trees which form a continuous canopy; c. Significant trees which contribute to the character of the environment, and do not constitute a safety hazard; d. Significant trees which provide winter wind protection or summer shade; e. Groups of significant trees which create a distinctive skyline feature; f. Significant trees in areas of steep slopes or adjacent to watercourses or wetlands; and g. Significant trees located within the first 20 feet adjacent to a property line. 2. The Director may approve retention of trees which do not meet the definition of significant trees as a contribution toward the sum of the diameter inches required under LUC 20.20.900.F.1 if a group of trees and its associated undergrowth can be preserved. 3. The applicant shall utilize tree protection techniques approved by the Director during land alteration and construction in order to provide for the continual healthy life of retained significant trees.					
20.20.900 Tree retention and replacement	 G. Alternative Tree Retention or Replacement Option 1. An applicant may request a modification of the tree retention requirements set forth in subsections D, E, and F of this section. 2. The Director may administratively approve a modification of the perimeter or interior tree retention requirements if: a. The modification is consistent with the stated purpose of this section; and b. The modification proposal either: i. Incorporates the retention or replacement of significant trees equal in equivalent diameter inches or incorporates the increased retention or replacement of significant trees and naturally occurring undergrowth to what would otherwise be required; or ii. Incorporates the retention or replacement of other natural vegetation in consolidated locations which promotes the natural vegetated character of the site and neighborhood including use as pasture land or for agricultural uses. iii. Where a modification proposal includes supplemental or replacement trees in lieu of retention, the applicant shall utilize plant materials which complement the natural character of the Pacific Northwest, and which are adaptable to the climatic, topographic, and hydrologic characteristics of the site. 	No changes/ action taken	No revisions proposed; existing code language gives preference to retention or replacement of native vegetation over other vegetation types.	N/A		

Table 5 - Land Use Code Chapter 20.25 - Special and Overlay Districts

Chart 20:25A.020 Chart 20:25A.020 A.2 No changes/ action taken No cevisions proposed action taken Act	Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Dimensional requirements— General. 20.25 A 060 Walkways and Sidewalks — Perimeter. A Walkways and Sidewalks — Perimeter. A Minimum Winth. 3. The minimum winth of perimeter walkway or sidewalk on the streets identified in this paragraph is 2 feet plus a 6-inch curb. Included within that 15 feet and adjacent to the surve, there and lose planter strip or tree pit as prescribed in Plate A of this section. 4. Walkways and Sidewalks — Perimeter. 5. Minimum Winth. 5. The minimum winth of perimeter walkway or sidewalk on the streets identified in this paragraph is 15 feet plus a 6-inch curb. Included within that 15 feet and adjacent to the surve, there and lose planter strip or tree pit as prescribed in Plate A of this section. 6. Winth Avenue NE between NE 4th and NE 8th; and 7. Bellevue Way between NE 4th and NE 8th; and 8. Bellevue Way between NE 4th and NE 8th; and 9. Winth Avenue NE between NE 4th and NE 8th; and 9. Winth Avenue NE between NE 4th and NE 8th; and 10. In Sith Avenue NE between NE	20.25A.020		-			/		
discharge that require water quality restrictions, the downtown is highly unhanced, and reducing imperious surfaces in the downtown is had use districts would conflict with GMA requirements, including accommodating growth. 20.25 A 050 Walkways and Sidewalks - Perimeter. 1. Minimum Width. 2. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. 1. NE 6th between 100th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iv. NE 4th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th between 10th Avenue NE and 112th Avenue NE; and vi. NE 8th be			action taken					
20.25A.060 Walkways and sidewalks — Perimeter. 20.25A.060 Walkways and sidewa	•							
downtown is highly urbainzed, and reducing impervious surfaces in the downtown had use districts would conflict with GMA requirements, including accommodating growth. 20.25A.060 Walkways and sidewalks. A. Walkways and Sidewalks – Perimeter. 1. Minimum Width. a. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in the paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to section: I. NE 6th between 110th Avenue NE and 112th Avenue NE; and iii. 108th Avenue NE between NE 4th and NE 8th; and v. Believue Way between Main and NE 12th; and v. N. E4 th between 100th Avenue NE and 112th Avenue NE. D. Along any orther street not listed in subsection A. I. and 112th Avenue NE. D. Along any orther street not listed in subsection A. I. and this section. C. Within the width of the walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. C. Within the width of the walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. C. Within the width of the walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. C. Within the width of the walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. C. Within the width of the walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this se	General.							
urbanized, and reducing impervious surfaces in the downtown land use districts would conflict with DMA requirements, including accommodating growth. 20 25A 060 Walkways and Sidewalks — Perimeter. 1. Minimum Width. 2. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 15 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section: 1. NE 6th between 10th Avenue NE and 112th Avenue NE; and ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE and 112th Avenue NE a				1				
Impervious surfaces in the downtown land use districts would conflict with GMA requirements, including accommodating growth A. Walkways and Sidewalks – Perimeter. Minimum Width. A. Walkways and Sidewalks – Perimeter. Minimum Width. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. N. Edith between 10th Avenue NE and 112th Avenue NE; and ii. 108th Avenue NE between NE 4th and NE 8th; and v. Delleuer Way between Main and NE 12th; and v. Ne elleuer Way between Main an								
downtown land use districts would conflict with MMA requirements, including accommodating growth. 20.25A.060 Walkways and Sidewalks – Perimeter. 1. Minimum Width. 2. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. 1. NE of th between 110th Avenue NE and 112th Avenue NE; and ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and nother than and NE 8th; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE and 112th Avenue NE; and iii. 106th Avenu				_				
20.25A.060 Walkways and Sidewalks - Perimeter. 1. Minimum Width. 2. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. 1. We 6th between 110th Avenue NE and 112th Avenue NE; and ii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. NE 4th between 100th Avenue NE and 112th Avenue NE; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE. 2. Amended existing code to allow the use of bioretention in conjunction with street teres (such as in silva cells) using removable grates to allow for maintenance to bioretention facilities. 3. Minimum Width of perimeter walkway or sidewalk on the streets identified in the complete of the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. 4. Walkways and Sidewalks – Perimeter. 5. Minimum Width. 5. Me stip between NE 4th and NE 2th; and ii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Ave				-				
20.25A.060 Walkways and Sidewalks — Perimeter. 20.25A.060 Walkways and Sidewalks — Perimeter. 20.25A.060 Walkways and Sidewalks — Perimeter. 3. Minimum Width. 4. Walkways and Sidewalks — Perimeter. 5. Minimum Width. 5. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. 6. We shaw when we will be the ween NE 4th and NE 8th; and 7. We shaw when we will be the ween NE 4th and NE 8th; and 8. Walkways and Sidewalks — Perimeter. 8. Manended existing code to allow the use of bioretention in conjunction with street trees (such as in silva cells) using removable grates to allow for maintenance to bioretention facilities. 8. Walkways and Sidewalks — Perimeter. 9. Minimum Width. 9. The minimum width of perimeter walkway or sidewalk to 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section. 1. NE 6th between 110th Avenue NE and 112th Avenue NE; and 1. Minimum Width. 2. The minimum width of perimeter walkway or sidewalk is 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. 2. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. 3. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall be a planter strips and tree pits shall be and the strip and tree pits shall be and to the cuts, driveways and spacing for utilities. Planter strips and tree pits shall be and the strip and tree pits shall be and to the cuts, driveways and spacing for utilities. Pl								
20.25A.060 Walkways and Sidewalks – Perimeter. 20.25A.060 Walkways and Sidewalk and Sidew								
A Walkways and Sidewalks – Perimeter. 1. Minimum Width. a. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section: i. NE 6th between 110th Avenue NE and 112th Avenue NE; and ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 10th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between 10th Avenue NE and 112th Avenue NE; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE								
a. The minimum width of perimeter walkway or sidewalk on the streets identified in this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section: i. NE 6th between 110th Avenue NE and 112th Avenue NE; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, vi. NE 4th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall	20.25A.060 Walkways	A. Walkways and Sidewalks – Perimeter.	Amended		A. Walkways and Sidewalks – Perimeter.			✓
this paragraph is 16 feet plus a 6-inch curb. Included within that 16 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section: i. NE 6th between 110th Avenue NE and 112th Avenue NE; and ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vi. NE 8th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viii. NE 8th between 10th Avenue NE and 112th Avenue NE; and viiii. 108th Avenue NE between NE 4th and NE 8th; and viiii. 108th A	and sidewalks.	1. Minimum Width.	existing code	allow the use of bioretention	1. Minimum Width.			
to the curb, there shall be a planter strip or tree pit as prescribed by Plate A of this section: i. NE 6th between 110th Avenue NE between NE 4th and NE 8th; and iii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		a. The minimum width of perimeter walkway or sidewalk on the streets identified in		in conjunction with street	a. The minimum width of perimeter walkway or sidewalk on the streets identified in			
section: i. NE 6th between 110th Avenue NE and 112th Avenue NE; and ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and v. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. allow for maintenance to bioretention facilities. i. NE 6th between 110th Avenue NE and 112th Avenue NE. i. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and v. Bellevue Way between Main and NE 12th; and v. Mellevue 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips and Tree Pits. Planter strips and tree pits shall be at least five feet wide and as long as the street f				,				
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ii. 106th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall								
iii. 108th Avenue NE between NE 4th and NE 8th; and iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and v. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE; and viii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall				bioretention facilities.	·			
iv. 110th Avenue NE between NE 4th and NE 8th; and v. Bellevue Way between Main and NE 12th; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		· ·			·			
v. Bellevue Way between Main and NE 12th; and vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall								
vi. NE 4th between 100th Avenue NE and 112th Avenue NE; and vii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		·			·			
vii. NE 8th between 100th Avenue NE and 112th Avenue NE. b. Along any other street not listed in subsection A.1.a of this section, the minimum width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		· · · · · · · · · · · · · · · · · · ·			·			
width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that 12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall					·			
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in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall in Plate A of this section. c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that			width of a perimeter walkway or sidewalk is 12 feet plus a 6-inch curb. Included in that			
c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall c. Within the width of the walkway or sidewalk, at least six feet of unobstructed travel path shall be maintained for safe pedestrian access. d. Planter Strips and Tree Pits. Planter strips shall be at least five feet wide and as long as the street frontage, excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall		12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed			12 feet and adjacent to the curb, there shall be a planter strip or tree pit as prescribed			
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excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall excluding curb cuts, driveways and spacing for utilities. Planter strips and tree pits shall					·			
reasonably relocated. Tree pits shall be covered with protective grate or pavers. Where								
stormwater facilities are used in conjunction with tree pits, removable gates shall be								
<u>utilized.</u>					utilized.			
D. Development Standards. Amended existing code to D. Development Standards.		D. Development Standards.	Amended	_	D. Development Standards.	/	/	
existing code allow the use permeable			existing code	·			_	
4. Landscape Development. pavement and to require at 4. Landscape Development.				·	·			
a. General. The standards of this subsection supplement other landscape least 50% of plantings be a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement other landscape a. General. The standards of this subsection supplement of the standards of this subsection supplement of the standards of this subsection supplement of the standards								
requirements of this Part 20.25A and LUC 20.20.520 for development in the Perimeter native species. requirements of this Part 20.25A and LUC 20.20.520 for development in the Perimeter				native species.				
Design District. b. Linear Buffers. Design District. b. Linear Buffers.								
i. General. Any development situated within Perimeter Design District – Subdistrict A								

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
- Couc reference	shall provide a "linear buffer" within the minimum setback adjacent to the Downtown	requirements	CAPIGITI WITY.	shall provide a "linear buffer" within the minimum setback adjacent to the Downtown			
	boundary required by subsection D.2 of this section. The purpose of this feature is to			boundary required by subsection D.2 of this section. The purpose of this feature is to			
	produce a green buffer that will soften the visual impact of the relatively larger			produce a green buffer that will soften the visual impact of the relatively larger			
	buildings. These design standards are minimum requirements for the size and quantity			buildings. These design standards are minimum requirements for the size and quantity			
	of trees, shrubs and other "linear buffer" elements. The specific design of the "linear			of trees, shrubs and other "linear buffer" elements. The specific design of the "linear			
	buffer" for each project site will be determined through the Design Review Process.			buffer" for each project site will be determined through the Design Review Process.			
	Design considerations include but are not limited to the placement of elements and			Design considerations include but are not limited to the placement of elements and			
	their relationship to adjacent property as well as to the proposed development.			their relationship to adjacent property as well as to the proposed development.			
	Different sets of design standards apply to each of the locational conditions.			Different sets of design standards apply to each of the locational conditions.			
	ii. Where the Downtown boundary falls within the Main Street, 100th Avenue NE or			ii. Where the Downtown boundary falls within the Main Street, 100th Avenue NE or			
	NE 12th Street right-of-way, the minimum setback from the Downtown boundary shall			NE 12th Street right-of-way, the minimum setback from the Downtown boundary shall			
	be landscaped according to the basic requirements and either Alternative A or B of the			be landscaped according to the basic requirements and either Alternative A or B of the			
	supplemental requirement.			supplemental requirement.			
	(1) Basic Requirements (Applicable in All Cases).			(1) Basic Requirements (Applicable in All Cases).			
	(a) Must have a minimum width of 20 feet;(b) Must abut and be within three feet in elevation of a sidewalk, so as to be visually			(a) Must have a minimum width of 20 feet;(b) Must abut and be within three feet in elevation of a sidewalk, so as to be visually			
	and physically accessible;			and physically accessible;			
	(c) Must provide at least one sitting space for each 200 square feet of the perimeter			(c) Must provide at least one sitting space for each 200 square feet of the perimeter			
	setback area;			setback area;			
	(d) May not be used for parking; vehicular access drives shall be kept to a minimum;			(d) May not be used for parking; vehicular access drives shall be kept to a minimum;			
	(e) Must be readily accessible to the public at all times;			(e) Must be readily accessible to the public at all times;			
	(f) Must include seasonal color in an amount of at least 10 percent of the perimeter			(f) Must include seasonal color in an amount of at least 10 percent of the perimeter			
	setback area;			setback area;			
	(2) Supplemental Requirements.			(g) Must utilize native species for at least 50 percent of the plantings located within			
	(a) Alternative A.			the perimeter setback area.			
	(i) Three deciduous trees, with a minimum caliper of 3 inches, per each 1,000 square			(2) Supplemental Requirements.			
	feet of the perimeter setback area; and			(a) Alternative A.			
	(ii) Two flowering trees, with a minimum caliper of 2 inches, per each 1,000 square			(i) Three deciduous trees, with a minimum caliper of 3 inches, per each 1,000 square			
	feet of perimeter setback area; and			feet of the perimeter setback area; and			
	(iii) Ten evergreen shrubs, minimum 5-gallon size, per 1,000 square feet of the			(ii) Two flowering trees, with a minimum caliper of 2 inches, per each 1,000 square			
	perimeter setback area; and			feet of perimeter setback area; and			
	(iv) Any paved surfaces shall be no more than 10 percent of the perimeter setback area; and			(iii) Ten evergreen shrubs, minimum 5-gallon size, per 1,000 square feet of the perimeter setback area; and			
	(v) Planting area must either be raised or sloped. If raised, the planting area shall be			(iv) Any paved surfaces shall be no more than 10 percent of the perimeter setback			
	surrounded by a wall with a minimum height of 18 inches and a maximum height of 24			area; and			
	inches to allow for sitting.			(v) Planting area must either be raised or sloped. If raised, the planting area shall be			
	(b) Alternative B.			surrounded by a wall with a minimum height of 18 inches and a maximum height of 24			
	(i) Three deciduous trees, with a minimum caliper of 3 inches, per each 1,000 square			inches to allow for sitting.			
	feet of the perimeter setback area; and			(b) Alternative B.			
	(ii) Lawn greater than 5 feet in width or ground cover on at least 25 percent of the			(i) Three deciduous trees, with a minimum caliper of 3 inches, per each 1,000 square			
	perimeter setback area; and			feet of the perimeter setback area; and			
	(iii) Any paved surfaces shall be no more than 75 percent of the perimeter setback			(ii) Lawn greater than 5 feet in width or ground cover on at least 25 percent of the			
	area; and			perimeter setback area; and			
	(iv) Paved areas shall use brick, stone or tile in a pattern and texture that is level and			(iii) Any paved surfaces shall be no more than 75 percent of the perimeter setback			
	slip-resistant; and			area; and			
	(v) Opportunities for pedestrian flow from the sidewalk shall be frequent and direct.			(iv) Paved areas shall use <u>pervious pavement</u> , brick, stone or tile in a pattern and			
	Changes in grade between the linear buffer and sidewalk shall be accommodated by			texture that is level and slip-resistant; and			
	steps or terraces, rather than walls.			(v) Opportunities for pedestrian flow from the sidewalk shall be frequent and direct.			
	iii. Where the Downtown boundary abuts property outside the Downtown other than			Changes in grade between the linear buffer and sidewalk shall be accommodated by			
	right-of-way described in subsection D.4.b.ii of this section, the minimum setback from			steps or terraces, rather than walls.			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	the Downtown boundary (or perimeter property lines when the setback has been relocated pursuant to Note 10 of subsection D.2 of this section) shall be landscaped as follows: (1) The entire setback (20 feet) shall be planted. No portion may be paved except for vehicular entrance drives and required mid-block pedestrian connections. (2) The setback must incorporate a berm having a minimum height of three and one-half feet. (3) The setback must be planted with: (a) Evergreen and deciduous trees, with no more than 30 percent deciduous, a minimum of 10 feet in height, at intervals no greater than 20 feet on center; and (b) Evergreen shrubs, a minimum of two-gallon in size, at a spacing of three feet on center; and (c) Living ground cover so that the entire remaining area will be covered in three years. c. Street Trees. Street trees required by LUC 20.25A.060.C along Main Street, 100th Avenue NE or NE 12th Street must be at least four inches in caliper.			 iii. Where the Downtown boundary abuts property outside the Downtown other than right-of-way described in subsection D.4.b.ii of this section, the minimum setback from the Downtown boundary (or perimeter property lines when the setback has been relocated pursuant to Note 10 of subsection D.2 of this section) shall be landscaped as follows: The entire setback (20 feet) shall be planted. No portion may be paved except for vehicular entrance drives and required mid-block pedestrian connections. The setback must incorporate a berm having a minimum height of three and one-half feet. The setback must be planted with: Evergreen and deciduous trees, with no more than 30 percent deciduous, a minimum of 10 feet in height, at intervals no greater than 20 feet on center; and Evergreen shrubs, a minimum of two-gallon in size, at a spacing of three feet on center; and Living ground cover so that the entire remaining area will be covered in three years. Street Trees. Street trees required by LUC 20.25A.060.C along Main Street, 100th Avenue NE or NE 12th Street must be at least four inches in caliper. 			
20.25A.110 Design Review criteria.	 B. Downtown Patterns and Context. 2. Landscape Design. a. Make effective use of significant landscape features to complement and contrast with building forms. This includes massing of plant materials to constitute a recognizable visual unit which contrasts effectively with built forms. b. Encourage retention of significant existing vegetation, where it can be incorporated into efficient site design and maintained in a safe and healthful condition. 	Amended existing code	Amended existing code to require, rather than encourage, the retention of existing vegetation.	 B. Downtown Patterns and Context. 2. Landscape Design. a. Make effective use of significant landscape features to complement and contrast with building forms. This includes massing of plant materials to constitute a recognizable visual unit which contrasts effectively with built forms. b. Encourage Require retention of significant existing vegetation, where it can be incorporated into efficient site design and maintained in a safe and healthful condition. 		√	
20.25B.040 Development standards.	 C. Landscaping, Open Space and Buffers. 1. Landscaping. All landscaping shall comply with standards set forth in LUC 20.20.520. The provisions of LUC 20.20.520.J (Alternative Landscaping Option) are applicable and, in addition, may be used to modify up to 10 feet of required street frontage landscaping. 2. Buffer. a. A landscaped buffer, at least 20 feet in width, shall be provided along the entire street frontage where any portion of the street frontage is abutting a district receiving transition and along the interior property line abutting the district receiving transition. 	Amended existing code	Amended existing code to allow for bioretention swales and planters to be located within landscaped buffers.	 C. Landscaping, Open Space and Buffers. 1. Landscaping. All landscaping shall comply with standards set forth in LUC 20.20.520. The provisions of LUC 20.20.520.J (Alternative Landscaping Option) are applicable and, in addition, may be used to modify up to 10 feet of required street frontage landscaping. 2. Buffer. a. A landscaped buffer, at least 20 feet in width, shall be provided along the entire street frontage where any portion of the street frontage is abutting a district receiving transition and along the interior property line abutting the district receiving transition. Where feasible, bioretention swales and planters may be located within landscaped buffers. 			✓
20.25D.020 Definitions Specific to Bel-Red	Natural Drainage Practices. Techniques such as rain gardens, pervious pavement, vegetated roofs, and amended soils that manage stormwater runoff in a manner that improves the quality of runoff and more closely mimics natural drainage flows and rates than traditional stormwater techniques.	No changes/ action taken	No revisions proposed; existing code language does not conflict with Permit or Manual language.	N/A			✓
20.25D.090 FAR Amenity Incentive System, Figure 20.25D.090.C	13. NATURAL DRAINAGE PRACTICES Low impact development techniques that improve natural drainage practices such as rain gardens, pervious pavement, vegetated roof, and amended soils. 0.7 sf bonus building area per sf of effective natural drainage practice. 1. Shall meet criteria of the Bellevue Utilities Department Engineering Standards Chapter D9, now or as hereafter amended. 2. Underlying soil condition and infiltration rate must be appropriate for the practice.	No changes/ action taken	No revisions proposed; the amenity incentive system provides incentives in the form of FAR increases where natural drainage practices are implemented.	N/A			V

Code reference	Existing policy language 3. Requirement for large storm events as determined by Bellevue Utilities Department	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	shall be met. 4. Maintenance of the natural drainage practice is the obligation of the property owner for the life of the project.						
20.25D.110 Landscape Development, Outdoor Storage, Retail Display, and Fence Standards.	 A. General. 1. Applicability. The provisions of LUC 20.20.520.A, D, E, G, I, J, K, and L apply to development in the BR Land Use Districts in addition to the provisions contained in this section. 2. Review Required. The Director shall review the proposed landscape development, outdoor storage, retail display, and fencing and may approve a proposed structure, alteration, site development, use, or occupancy only if the requirements of this section are met, subject to the provisions of LUC 20.25D.060 for existing conditions. B. Street Frontage Landscape Development Requirements. 1. Purpose/Intent. Landscape development, including retention of significant trees, as required by this section is necessary to maintain and protect property values, to enhance the visual appearance of the Bel-Red Subarea, to preserve the natural wooded character of the Pacific Northwest, to promote utilization of natural systems, to reduce the impacts of development on the storm drainage system and water resources, to provide a better transition between the various land use districts in the Bel-Red Subarea and to enhance the pedestrian environment. C. Perimeter Landscape Development for Land Use Districts. 1. Purpose/Intent. Landscape development, including retention of significant trees, as required by this section is necessary to create visual separation between different land use districts. 2. Where Required. A 20-foot landscape buffer shall be provided along the interior property line of a district abutting BR-R and BR-ORT Land Use Districts. 3. Applicable Standards. a. Evergreen shrubs shall be provided at a maximum spacing of 20 feet on center. No more than 30 percent shall be deciduous. Trees shall be a minimum height of 10 feet at planting. b. Evergreen shrubs shall be provided as necessary to cover the entire remaining area within a minimum of two gallons in size at planting. c. Living ground cover shall be provided as nece	No changes/ action taken	No revisions proposed; the purpose statement identifies impacts to the storm drainage system and water resources as one of the main reasons to retain native vegetation.	N/A			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater
	b. If planted to buffer a building elevation, shrubs, a minimum of three and one-half feet in height, and living ground cover planted so that the ground will be covered within three years; or c. If planted to buffer a parking area, access, or site development other than a building, any of the following alternatives may be used unless otherwise noted: i. Shrubs, a minimum of three and one-half feet in height, and living ground cover must be planted so that the ground will be covered within three years. ii. Earth-mounding, an average of three and one-half feet in height, planted with shrubs or living ground cover so that the ground will be covered within three years. This alternative may not be used in a Downtown Land Use District. iii. A combination of earth-mounding and shrubs to produce a visual barrier at least three and one-half feet in height. E. Curb Extension Planting 1. Purpose/Intent. Landscape development as required by this section is necessary to enhance the visual appearance of the Bel-Red Subarea, to reduce the impacts of development on the storm drainage system and water resources to enhance the pedestrian environment in the Bel-Red Subarea. 2. Where Required: Refer to Transportation Department Development Standards for curb extension design standards and generalized locations. F. Significant Tree Retention and Pruning. Tree retention requirements of LUC 20.20.900 shall apply in addition to the requirements set forth below. 1. In the landscape areas required pursuant to subsections B and C of this section, all significant trees shall be retained that do not constitute a safety hazard as determined by the Director and consistent with the guidelines of the International Society of Arboriculture. 2. Select Tree Pruning. Pruning of existing trees within the 20-foot-wide landscape buffer on the north and south sides of Bellevue-Redmond Road shall be performed in accordance with guidelines established by the Director for each of the following pruning techniques: canopy reduction; canopy clea						
20.25D.150 Design Guidelines.	 B. Character and Site Guidelines. Purpose. These guidelines address the qualities that make the Bel-Red subarea unique. They consider what makes an area a special, distinct "place," not simply a group of individual buildings and streets. 1. Integrate the Natural Environment. a. Intent. Reinforce linkages and orient buildings to the Bel-Red Subarea's natural and landscaped features. b. Guideline. Site and building design should capitalize on significant elements of the natural environment, Highland Community Park and planned park and open space, riparian corridors and wetlands. Designs should incorporate open space amenities for residents, employees and visitors. Depending on the location, this may be accomplished through integration of the natural environment with new development or providing a smooth 	No changes/ action taken	No revisions proposed; existing code does not preclude the use of LID	N/A			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater
code reference	transition between the natural and built environments. iii. Elements that engage the natural environment where the sight, sound and feel of nature can be directly experienced. iv. Buildings sited to take maximum advantage of adjacent public amenities. v. Walkways and plazas paved with high-quality materials (such as brick or stone), and other architectural elements that use materials, colors and forms that are harmonious with the natural surroundings. d. Not Recommended. i. Buildings that turn their back on open space amenities.	requirements	explain willy.	Amended code language			
20.25D.150 Design Guidelines.	 ii. Stands of "native" planting schemes within large, automobile-oriented parking lots. B. Character and Site Guidelines. Purpose. These guidelines address the qualities that make the Bel-Red subarea unique. They consider what makes an area a special, distinct "place," not simply a group of individual buildings and streets. 4. Protect and Enhance Surface Water Resources. a. Intent. Conserve water quality, natural hydrology and habitat, and preserve biodiversity through protection of water bodies and wetlands. b. Guideline. Natural water systems regulate water supply, provide biological habitat and may provide recreational opportunities. Undeveloped ecosystems absorb the precipitation and convey only a small portion of rainfall as surface runoff. New and infill development should minimize disturbances to the on-site, adjacent, and regional natural water systems. c. Recommended. i. Grading and plan layout that captures and slows runoff. iii. Pervious or semi-pervious surfaces that allow water to infiltrate soil. iiii. On-site landscape-based water treatment methods that treat rainwater runoff from all surfaces, including parking lots, roofs and sidewalks. 	Amended existing code	Amended existing code to require the use of natural drainage practices unless infeasible, rather than recommend their use.	B. Character and Site Guidelines. Purpose. These guidelines address the qualities that make the Bel-Red subarea unique. They consider what makes an area a special, distinct "place," not simply a group of individual buildings and streets 4. Protect and Enhance Surface Water Resources. a. Intent. Conserve water quality, natural hydrology and habitat, and preserve biodiversity through protection of water bodies and wetlands. b. Guideline. Natural water systems regulate water supply, provide biological habitat and may provide recreational opportunities. Undeveloped ecosystems absorb the precipitation and convey only a small portion of rainfall as surface runoff. New and infill development should minimize disturbances to the on-site, adjacent, and regional natural water systems. Use of natural drainage practices are required unless infeasible. c. Recommended. i. Grading and plan layout that captures and slows runoff. ii. Pervious or semi-pervious surfaces that allow water to infiltrate soil. iii. On-site landscape-based water treatment methods that treat rainwater runoff from all surfaces, including parking lots, roofs and sidewalks.			
20.25F.040 Site and design requirements.	C. Design Requirements. 4. Drainage. The applicant must submit a drainage plan consistent with the development standards of the City of Redmond and the City of Bellevue which produce the more protective drainage system as determined by the Redmond Public Works Director and the Bellevue Utilities Director.	Amended existing code	Amended existing code to require the use of LID techniques unless infeasible.	C. Design Requirements. 4. Drainage. The applicant must submit a drainage plan consistent with the development standards of the City of Redmond and the City of Bellevue which produce the more protective drainage system as determined by the Redmond Public Works Director and the Bellevue Utilities Director. The use of LID stormwater management techniques is required unless infeasible.			✓
20.25F1.070 Sidewalks and pedestrian paths.	A. Perimeter Sidewalks 2. Street Trees And Planter Strip Design. a. Installation. The property owner shall install street trees and planter strips, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter amended. Street tree and planter strips shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process. b. Location. The area in which planter strips are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated or as necessary to retain mature trees pursuant to paragraph A.2.e below.	Amended existing code	Amended existing code to allow for bioretention swales and planters to be located within planter strips.	A. Perimeter Sidewalks. 2. Street Trees And Planter Strip Design. a. Installation. The property owner shall install street trees and planter strips, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter amended. Street tree and planter strips shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process. b. Location. The area in which planter strips are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated or as necessary to retain mature trees pursuant to paragraph A.2.e below.			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater
20.25F1.070 Sidewalks and pedestrian paths	c. Design. Required street trees should be placed in predominantly continuous planter strips together with shrubbery, ground cover and other plantings approved by the Director. The area in which street trees are planted must be at least four feet wide by six feet wide. Vegetation approved for a planter strip must be compatible with the F1 Design Guidelines for the development area within which the planter strip is located. A street planter strip may also include decorative paving and other plant materials except turf. d. Size and Spacing. Large growing deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 30 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240. e. Mature Tree Retention. The existing mature street trees located on the perimeter street frontages shall be maintained to the extent feasible. Sidewalks and planter strips may be reduced and/or relocated to the back of sidewalk if necessary to accommodate retention of the mature trees. B. On-Site Sidewalks. 1. Minimum Width. The minimum width of on-site street sidewalks shall be 12 feet inclusive of the street tree planting wells. 2. Street Trees and Plantings. a. Installation. The property owner shall install street trees and plantings, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter	Amended existing code	Amended existing code to allow for stormwater facilities to be utilized with street trees.	c. Design. Required street trees should be placed in predominantly continuous planter strips together with shrubbery, ground cover and other plantings approved by the Director. The area in which street trees are planted must be at least four feet wide by six feet wide. Vegetation approved for a planter strip must be compatible with the F1 Design Guidelines for the development area within which the planter strip is located. A street planter strip may also include decorative paving and other plant materials except turf. Where feasible, bioretention swales and planters may be located within the planter strip. d. Size and Spacing. Large growing deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 30 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240. e. Mature Tree Retention. The existing mature street trees located on the perimeter street frontages shall be maintained to the extent feasible. Sidewalks and planter strips may be reduced and/or relocated to the back of sidewalk if necessary to accommodate retention of the mature trees. B. On-Site Sidewalks. 1. Minimum Width. The minimum width of on-site street sidewalks shall be 12 feet inclusive of the street tree planting wells. 2. Street Trees and Plantings. a. Installation. The property owner shall install street trees and plantings, in addition to any landscaping required by LUC 20.25F1.050, pursuant to the City of Bellevue Environmental Best Management Practices and Design Standards, now or as hereafter			•
	amended. Street trees and required landscaping shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process. b. Location. Street trees shall be planted in a continuous, rhythmic pattern. Street trees must be located between the street and the sidewalk. c. Design. Required street trees shall be planted in tree pits with grates. The area in which street trees are planted must be at least four feet wide by six feet wide. d. Size and Spacing. Small growing pedestrian-scale deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 25 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240.			amended. Street trees and required landscaping shall be irrigated. Appropriate tree species will be determined through the Master Development Plan process. b. Location. Street trees shall be planted in a continuous, rhythmic pattern. Street trees must be located between the street and the sidewalk. c. Design. Required street trees shall be planted in tree pits with grates. The area in which street trees are planted must be at least four feet wide by six feet wide. Where stormwater facilities are used in conjunction with tree pits, removable grates shall be utilized. d. Size and Spacing. Small growing pedestrian-scale deciduous street trees, at least three inches in caliper or as approved by the Director, shall be planted at least three feet from the street curb, and a maximum of 25 feet on center, and shall conform to the sight distance requirements of BCC 14.60.240.			
20.25F1.110 Design Review criteria	B. Site Design 2. Landscaping a. Landscaping shall include a combination of hardscapes and planting, i.e., plaza, square, terraces, etc. b. Provide trees and vertical landscaping to give scale to buildings, to soften expanses of surface parking and open parking decks and for privacy in the residential courtyards. c. Extend paving materials for sidewalks and plazas across the streets and intersections at selected locations that are jointly used by vehicles and people. d. Use a hierarchy of paving designs and/or treatments to differentiate site conditions, such as primary intersections, sidewalks, shared people-vehicle streets, plazas, and retail, office, and building entrances.	No changes/ action taken	No revisions proposed; existing code language does not preclude use of LID techniques.	N/A			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.25H.030 Identification of critical area.	2. Native Growth Protection Area/Easement. The Director may also require recording of the delineation of, and restrictions of, Native Growth Protection Areas (NGPA) or Native Growth Protection Easements (NGPE) designated as part of an approval of a subdivision, short subdivision or Planned Unit Development within the Critical Areas Overlay District, and as part of any approval to modify a critical area or critical area buffer. The NGPA or NGPE shall contain at minimum: a. An assurance that the NGPA or NGPE will be kept free from all development and disturbance except where allowed or required for habitat improvement projects, vegetation management, and new or expanded City parks pursuant to LUC 20.25H.055; and that native vegetation, existing topography, and other natural features will be preserved for the purpose of preventing harm to property and the environment, including, but not limited to, controlling surface water runoff and erosion, maintaining slope stability, buffering and protecting plants and animal habitat; b. The right of the City of Bellevue to enter the property to investigate the condition of the NGPA or NGPE upon reasonable notice; c. The right of the City of Bellevue to enforce the terms of the restriction; and d. A management plan for the NGPA or NGPE designating future management responsibility.	No changes/ action taken	No revisions proposed; existing code language requires preservation of native vegetation.	N/A			
20.25H.055 Uses and development allowed within critical areas – Performance standards.	C. Performance Standards i. Vegetation Management i. Noxious Species. The removal of the following vegetation with hand labor and hand-operated equipment from a critical area buffer, or from a geologic hazard critical area, is allowed without requiring a Critical Areas Land Use Permit or a Vegetation Management Plan: (A) Invasive and noxious weeds; (B) English Ivy (Hedera helix); (C) Himalayan blackberry (Rubus discolor, R. procerus); and (D) Evergreen blackberry (Rubus laciniatus) v. Vegetation Management Plan – Maintenance for Utility, Transportation, Parks and Public Facility Projects. Vegetation may be periodically removed from the critical area or critical area buffer as part of an ongoing routine maintenance plan for utility, transportation, park and other public facility projects allowed pursuant to subsection B of this section. Such removal shall be pursuant to a Vegetation Management Plan meeting the requirements of this subsection. (A) The Vegetation Management Plan shall be prepared by a qualified professional. (B) The Vegetation Management Plan shall include: (8) Short- and long-term management prescriptions, including restoration and revegetation requirements. Cleared areas shall be restored and revegetated with native species to the extent such vegetation does not interfere with the function of the allowed structure, trail, facility or system.	No changes/ action taken	No revisions proposed; existing code language requires replacement of native vegetation if it is removed pursuant to an approved Vegetation Plan.	N/A			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.25H.080 Performance standards (Streams)	A. General. Development on sites with a type S or F stream or associated critical area buffer shall incorporate the following performance standards in design of the development, as applicable:	Amended existing code	Amended existing code to prioritize native vegetation.	A. General. Development on sites with a type S or F stream or associated critical area buffer shall incorporate the following performance standards in design of the development, as applicable:		√	
	 Toxic runoff from new impervious area shall be routed away from the stream. Treated water may be allowed to enter the stream critical area buffer. The outer edge of the stream critical area buffer shall be planted with dense vegetation to limit pet or human use. 			 Toxic runoff from new impervious area shall be routed away from the stream. Treated water may be allowed to enter the stream critical area buffer. The outer edge of the stream critical area buffer shall be planted with dense vegetation to limit pet or human use. Preference shall be given to native species. 			
20.25H.125 Performance standards – Landslide hazards and steep slopes	E. Development shall be designed to minimize impervious surfaces within the critical area and critical area buffer	No changes/ action taken	No revisions proposed; existing code language addresses limiting impervious surfaces.	N/A	✓		
20.25H.130 Performance standards – Coal mine hazard area.	J. Mitigation of Trough Subsidence: Roads, Utilities, Grading, Retaining Walls. Utilities shall be designed to accommodate the magnitudes of strains and tilts specified in these regulations by using available engineering design techniques, such as those presented by Yokel and others (1981). The following requirements shall apply to CMS Zones 1 and 2. 5. Storm Drainage. The system design shall be able to provide for 1.5 times the predicted tilts and strains, including service lines, structures, and related appurtenances. Design grades shall provide positive grade after allowing for the maximum predicted subsidence profile. Detention and retention facilities shall be designed to remain functional following the occurrence of twice the maximum predicted tilts and strains. Such facilities shall only be located in CMS Zone 2 if all risk of sinkhole development has been eliminated. Detention and retention facilities shall be designed and located so that they will not cause damage or a risk to public safety.	No changes/ action taken	No revisions proposed; existing code language addresses storm drainage detention and retention facilities.	N/A			✓
20.25H.135 Mitigation and monitoring – Additional provisions for landslide hazards and steep slopes.	In addition to the general mitigation and restoration plan requirements of LUC 20.25H.210, each mitigation or restoration plan for geologic hazard critical areas shall include: B. Drainage Plan. The technical information shall include a drainage plan for the collection, transport, treatment, discharge, and/or recycle of water prepared in accordance with applicable City codes and standards. The drainage plan should consider on-site septic system disposal volumes where the additional volume will affect the erosion or landslide hazard area;	No changes/ action taken	No revisions proposed; within City stormwater codes and standards use of LID is required unless infeasible.	N/A			✓
20.25I.050 Design standards.	C. Internal Walkways. The following design standards apply within the Community Retail Design District: 3. Internal walkway surfaces shall be designed to be visually attractive and distinguishable from driving surfaces through the use of durable, low maintenance surface materials such as pavers, bricks, or scored concrete to enhance pedestrian safety and comfort.	No changes/ action taken	No revisions proposed; existing code language does not preclude the use of permeable surfacing.	N/A	✓		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.25J.070 Streetscape design requirements	2. Street Trees and Plantings b. The area in which street plantings are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated. Required street trees together with shrubbery, groundcover and other approved plantings must be placed in a planter strip along the length of the frontage. The planter strip must be at least four feet wide unless a smaller strip is approved by the Director. Vegetation included in the planter strip shall be urban in character, shall be compatible with other plantings within the property and along the same street, and shall reflect the character of the area in which they are planted. c. Street trees, at least three inches in caliper or as approved by the Director, must be planted at least three feet from the street curb, and a maximum of 25 feet on center, unless upon request of the applicant minor modification of this requirement is approved by the Director, and conforms to the sight distance requirements of BCC 14.60.240. A street tree planting area may also include decorative paving and other plant materials except turf. d. Street trees and plantings shall be irrigated.	Amended existing code	Amended existing code to allow bioretention swales and planters to be located within planter strips and to prioritize the use of native plant species.	2. Street Trees and Plantings b. The area in which street plantings are installed must be located between the street and the sidewalk unless precluded by existing utilities which cannot reasonably be relocated. Required street trees together with shrubbery, groundcover and other approved plantings must be placed in a planter strip along the length of the frontage. Where feasible, bioretention swales and planters may be located within the planter strip. The planter strip must be at least four feet wide unless a smaller strip is approved by the Director. Vegetation included in the planter strip shall be urban in character, shall be compatible with other plantings within the property and along the same street, and shall reflect the character of the area in which they are planted. Designs should prioritize the selection of native species. c. Street trees, at least three inches in caliper or as approved by the Director, must be planted at least three feet from the street curb, and a maximum of 25 feet on center, unless upon request of the applicant minor modification of this requirement is approved by the Director, and conforms to the sight distance requirements of BCC 14.60.240. A street tree planting area may also include decorative paving and other plant materials except turf. d. Street trees and plantings shall be irrigated.		•	•
20.25L.040 Design standards in OLB-OS Districts	B. Landscaping Design Standards. 1. The provisions of LUC 20.20.520, Tree Preservation and Landscape Development, except as they conflict with this section, shall apply to development in the OLB-OS District, except that the minimum depth of landscaping set forth in LUC 20.20.520.F.1 may be reduced to be consistent with any reduction to required minimum yards allowed pursuant to this section. The required landscaping Type in LUC 20.20.520.F.1 may be modified to ensure that required landscaping provides sufficient screening within the reduced minimum yard area. 2. Service yards and at-grade mechanical equipment shall be sight-screened from adjoining property or streets or highway by a solid planting of evergreen trees and shrubs at least as high as the equipment or use being screened within two years from the time of planting. 3. Parking areas shall include plantings using trees of three inches caliper or 14 to 16 feet high and 42-inch high shrubs at approximately 35 feet on-center parallel to the aisle, or shall be screened as a service yard using similar materials. Other parking lot landscaping shall meet LUC 20.20.590 requirements for Type V landscaping. 4. When property abuts the right-of-way for I-90, I-405, or SR 520 highways, or abuts parallel frontage roads of said highways, plant material shall be planted and spaced in a planting area a minimum of 10 feet wide. Deciduous trees shall have a minimum caliper of three inches, evergreen trees shall have a minimum height of 14 to 16 feet tall and shall be at intervals of no greater than 35 feet on center along the right-of-way. No more than 30 percent of the trees shall be deciduous. Trees shall have a minimum mature height of 45 feet. Shrubs shall be a minimum of 42 inches high. 5. Trees installed as part of general site landscaping shall be a minimum of one and one-half inches in caliper or eight to 12 feet high.	No changes/ action taken	No revisions proposed; existing code language does not inhibit the ability to use parking lot landscaping and other perimeter landscaping for stormwater management.	N/A			

Table 6 - Land Use Code Chapter 20.30D - Planned Unit Development

Code reference 20.30D.120 Purpose	Existing policy language Planned Unit Development is a mechanism by which the City may permit a variety in	Action taken to meet permit requirements No changes/	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why. No revisions proposed;	Amended code language N/A	Impervious surfaces	Loss of native vegetation	Stormwater
	type, design, and arrangement of structures; and enable the coordination of project characteristics with features of a particular site in a manner consistent with the public health, safety and welfare. A Planned Unit Development allows for innovations and special features in site development, including the location of structures, conservation of natural land features, protection of critical areas and critical area buffers, the use of low impact development techniques, conservation of energy, and efficient utilization of open space.	action taken	existing code language suggests that LID techniques are recommended, not required unless infeasible.				
20.30D.150 Planned Unit Development plan – Decision criteria.	The City may approve or approve with modifications a Planned Unit Development plan if: A. The Planned Unit Development is consistent with the Comprehensive Plan; and B. The Planned Unit Development accomplishes, by the use of permitted flexibility and variation in design, a development that is better than that resulting from traditional development. Net benefit to the City may be demonstrated by one or more of the following: 1. Placement, type or reduced bulk of structures, or 2. Interconnected usable open space, or 3. Recreation facilities, or 4. Other public facilities, or 5. Conservation of natural features, or 6. Conservation of critical areas and critical area buffers beyond that required under Part 20.25H LUC, or 7. Aesthetic features and harmonious design, or 8. Energy efficient site design or building features, or 9. Use of low impact development techniques;	Amended existing code	Amended existing code language to condition approval on the conservation of native vegetation and the reduction of hard surfaces, in addition to the use of low impact development techniques already included in the approval criteria.	The City may approve or approve with modifications a Planned Unit Development plan if: A. The Planned Unit Development is consistent with the Comprehensive Plan; and B. The Planned Unit Development accomplishes, by the use of permitted flexibility and variation in design, a development that is better than that resulting from traditional development. Net benefit to the City may be demonstrated by one or more of the following: 1. Placement, type or reduced bulk of structures, or 2. Interconnected usable open space, or 3. Recreation facilities, or 4. Other public facilities, or 5. Conservation of natural features, vegetation and on-site soils, or 6. Reduction in hard surfaces, or 67. Conservation of critical areas and critical area buffers beyond that required under Part 20.25H LUC, or 78. Aesthetic features and harmonious design, or 89. Energy efficient site design or building features, or 910. Use of low impact development techniques;			
20.30D.165 Planned Unit Development plan – Request for modification of zoning requirements.	 Density. General. The applicant may request a bonus in the number of dwelling units permitted by the underlying land use district (see general dimensional requirements contained in LUC 20.20.010), and district-specific requirements contained in Chapter 20.25 LUC. Bonus Decision Criteria. The City may approve a bonus in the number of dwelling units allowed by no more than 10 percent over the base density for proposals complying with this subsection A.2. Base density shall be determined on sites with critical areas or critical area buffers pursuant to LUC 20.25H.045. Base density on all other sites shall be determined based on the gross land area of the property excluding either that area utilized for traffic circulation roads or 20 percent, whichever is less. The bonus allowed by this section may be approved only if: The design of the development offsets the impact of the increase in density; and The increase in density is compatible with existing uses in the immediate vicinity of the subject property. Senior Citizen Dwelling. An additional 10 percent density bonus may be approved for senior citizen dwellings if the criteria in subsection A.2 of this section are met and if the average dwelling unit size does not exceed 600 square feet. Height. The applicant may request a modification of height from that allowed by the land use 	Amended existing code	Amended existing code language to allow for zerolot-line development within PUDs to facilitate clustering of buildings to retain native vegetation or preserve areas of high drainage/infiltrative quality for stormwater management techniques.	 A. Density and Floor Area Ratio. 1. General. The applicant may request a bonus in the number of dwelling units permitted by the underlying land use district or the maximum FAR (see general dimensional requirements contained in LUC 20.20.010), and district-specific requirements contained in Chapter 20.25 LUC. 2. Bonus Decision Criteria. The City may approve a bonus in the number of dwelling units allowed by no more than 10 percent over the base density for proposals complying with this subsection A.2. Base density shall be determined on sites with critical areas or critical area buffers pursuant to LUC 20.25H.045. Base density on all other sites shall be determined based on the gross land area of the property excluding either that area utilized for traffic circulation roads or 20 percent, whichever is less. The bonus allowed by this section may be approved only if: a. The design of the development offsets the impact of the increase in density; and b. The increase in density is compatible with existing uses in the immediate vicinity of the subject property. 3. Senior Citizen Dwelling. An additional 10 percent density bonus may be approved for senior citizen dwellings if the criteria in subsection A.2 of this section are met and if the average dwelling unit size does not exceed 600 square feet. B. Height. The applicant may request a modification of height from that allowed by the land use 			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	district, provided topography and arrangement of structures does not unreasonably impair primary scenic views (e.g., mountains, lakes, unique skylines) of the surrounding area, as compared to lot-by-lot development. Proposals earning bonus density pursuant to this section or LUC 20.30D.167 may only receive an increase in height if the requirements of subsection A.2 of this section are met, considering the impact of increased height. C. Other. The City may approve a modification of any provision of the Land Use Code, except as provided in LUC 20.30D.170, if the resulting site development complies with the criteria of this part.			district, provided topography and arrangement of structures does not unreasonably impair primary scenic views (e.g., mountains, lakes, unique skylines) of the surrounding area, as compared to lot-by-lot development. Proposals earning bonus density pursuant to this section or LUC 20.30D.167 may only receive an increase in height if the requirements of subsection A.2 of this section are met, considering the impact of increased height. C. Zero Lot Line. This is a configuration where the house and/or garage is built up to one of the side lot lines, providing the opportunity for more usable space in the opposing side yard. 1. General. The applicant may request a reduction in the required side setback from that required by the land use district and district specific requirements. Zero lot line setbacks are not permitted for side yards along the perimeter of the PUD. 2. Setback Reduction Decision Criteria. The City may approve a reduction in the setback of up to one side setback. The reduction in side setback shall be approved only if: a. The opposing side setback shall be at least 10 feet. b. In order to maintain privacy, no windows, doors, air conditioning units, or any other types of openings in the walls along the zero lot line wall, except for windows that do not allow for visibility into the side yard of the adjacent lot. D. Other. The City may approve a modification of any provision of the Land Use Code, except as provided in LUC 20.30D.170, if the resulting site development complies with the criteria of this part.			
20.30D.170 Planned Unit Development plan – Limitation on authority to modify zoning.	The following provisions of the Land Use Code may not be modified pursuant to LUC 20.30D.165: A. Any provision of this Part 20.30D, Planned Unit Development; or B. Any provision of LUC 20.10.440, Land use charts, and district-specific requirements contained in Chapter 20.25 LUC; or C. Any provision of Part 20.25E LUC, the Shoreline Overlay District; however, requests for modifications to the requirements of Part 20.25E LUC, where allowed under the provisions of that part, may be considered together with an application for a Planned Unit Development; or D. Any provision of the Land Use Code which specifically states that it is not subject to modification; or E. The procedural, enforcement and administrative provisions of the Land Use Code or any other applicable City Code; or F. Any provision of Part 20.25H LUC, the Critical Areas Overlay District, except as specifically provided for in that part; however, requests for modifications to the requirements of Part 20.25H LUC, where allowed under the provisions of that part, may be considered together with an application for a Planned Unit Development.	Amended existing code	Amended existing code to allow for land use charts and district-specific requirements to be modified (setbacks) to allow for zerolot-line development.	The following provisions of the Land Use Code may not be modified pursuant to LUC 20.30D.165: A. Any provision of this Part 20.30D, Planned Unit Development; or B. Any provision of LUC 20.10.440, Land use charts, and district-specific requirements contained in Chapter 20.25 LUC, except where district-specific requirements would prohibit zero-lot-line development, as provided for in LUC 20.30D.165.C (Zero Lot Line); or C. Any provision of Part 20.25E LUC, the Shoreline Overlay District; however, requests for modifications to the requirements of Part 20.25E LUC, where allowed under the provisions of that part, may be considered together with an application for a Planned Unit Development; or D. Any provision of the Land Use Code which specifically states that it is not subject to modification; or E. The procedural, enforcement and administrative provisions of the Land Use Code or any other applicable City Code; or F. Any provision of Part 20.25H LUC, the Critical Areas Overlay District, except as specifically provided for in that part; however, requests for modifications to the requirements of Part 20.25H LUC, where allowed under the provisions of that part, may be considered together with an application for a Planned Unit Development.			

Table 7 - Land Use Code
Chapter 20.45A Platting and Subdivisions

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater
20.45A.060 Special requirements for plats	D. Additional Requirements for Plats with Areas of Special Flood Hazard.	No changes/ action taken	No revisions proposed; existing code language	N/A		\checkmark	✓
with critical areas or	3. Subdivisions shall have adequate natural surface water drainage in accordance with	action taken	requires natural surface				
critical area buffers	locally adopted surface water management requirements to reduce exposure to flood		water drainage in				
	hazards; and		accordance with the surface				1
	4. Subdivisions shall show the 100-year floodplain, floodway, and channel migration		water design manual and				1
	zone on the preliminary and final plat and short plat maps and designate such areas as		requires plat maps to				1
	"no build," when applicable.		designate floodplain,				1
	5. Where detailed base flood elevation data has not been provided or is not available		floodway and CMZ areas as				1
	from another authoritative source, it shall be generated for subdivision proposals and		no build, effectively				
	other proposed developments which contain either 50 lots or involve five acres,		retaining native vegetation.				
	regardless of the number of lots. (Ord. 5682, 6-26-06, § 2)						

Table 8 - Title 20 - Land Use Code Chapter 20.45B Short Plats and Short Subdivisions

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.45B.055 Special	B. Conservation Short Subdivision	No changes/	No revisions proposed;	N/A		\checkmark	✓
requirements for short		action taken	existing code language				
plats with critical areas	2. Tract Required. The property owner receiving approval of a residential short		requires that native				1
or critical area buffers	subdivision pursuant to this section shall delineate the critical area and critical area		vegetation be preserved in NGPAs in part for				1
	buffer and set aside such areas in separate tracts, designated as Native Growth Protection Area(s) (NGPA) on the face of the final short plat. The final short plat shall		stormwater management				1
	contain the following restrictions for use, development and disturbance of such		purposes.				1
	NGPA(s) in a format approved by the City Attorney:		purposes.				1
	a. An assurance that: the tract will be kept free from all development and disturbance						1
	except where allowed or required for habitat improvement projects, vegetation						1
	management, or new or expanded City parks pursuant to LUC 20.25H.055; and that						1
	native vegetation, existing topography, and other natural features will be preserved for						1
	the purpose of preventing harm to property and the environment, including, but not						1
	limited to, controlling surface water runoff and erosion, maintaining slope stability,						
	buffering and protecting plants and animal habitat;						1
	b. The right of the City of Bellevue to enter the property to investigate the condition of						1
	the NGPA upon reasonable notice;						1
	c. The right of the City of Bellevue to enforce the terms of the NGPA; and						1
	d. A management plan for the NGPA designating future management responsibility.						1

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.		Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.45B.055 Special	C. Conventional Short Subdivision	No changes/	No revisions proposed;	N/A			√	√
requirements for short	2. Site Design	action taken	existing code language					
plats with critical areas			requires that native					
or critical area buffers	d. Critical areas, critical area buffers, and retained significant trees shall be placed in Native Growth Protection Easements (NGPE) designated on the final short plat document. The final short plat shall contain the following restrictions for use, development and disturbance of the NGPE in a format approved by the City Attorney: i. An assurance that: the NGPE will be kept free from all development and disturbance except where allowed or required for habitat improvement projects, vegetation management, and new or expanded City parks pursuant to LUC 20.25H.055; and that native vegetation, existing topography, and other natural features will be preserved for the purpose of preventing harm to property and the environment, including, but not limited to, controlling surface water runoff and erosion, maintaining slope stability, buffering and protecting plants and animal habitat; ii. The right of the City of Bellevue to enter the property to investigate the condition of the NGPE upon reasonable notice; iii. The right of the City of Bellevue to enforce the terms of the NGPE; and iv. A management plan for the NGPE designating future management responsibility. e. NGPEs on individual lots within the short plat shall be contiguous with NGPEs on		vegetation be preserved in NGPEs in part for stormwater management purposes.					
	other lots to the maximum extent feasible;							
20.45B.055 Special requirements for short plats with critical areas or critical area buffers	 D. Additional Requirements for Short Plats with Areas of Special Flood Hazard. 1. All lots created through short subdivision shall have adequate building space outside the 100-year floodplain, the floodway, and the channel migration zone. 2. Short subdivisions shall be designed to minimize or eliminate flood damage and impacts to floodplain functions and values. Public utilities and facilities that are installed as part of such subdivisions, such as sewer, gas, electrical, and water systems, shall be located and constructed to also minimize flood damage and impacts to floodplain functions and values. Short subdivisions should be designed using natural features of the landscape and should not incorporate flood protection changes. 3. Short subdivisions shall have adequate natural surface water drainage in accordance with locally adopted surface water management requirements to reduce exposure to flood hazards; and 4. Short subdivisions shall show the 100-year floodplain, floodway, and channel migration zone on the preliminary and final plat and short plat maps and designate such areas as "no build," when applicable. 5. Where detailed base flood elevation data has not been provided or is not available from another authoritative source, it shall be generated for short subdivision proposals and other proposed developments that involve five acres, regardless of the number of lots. 	No changes/ action taken	No revisions proposed; existing code language requires natural surface water drainage in accordance with the surface water design manual and requires plat maps to designate floodplain, floodway and CMZ areas as no build, effectively retaining native vegetation.	N/A				

Table 9 - Land Use Code Chapter 20.50 Definitions

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
20.50.024 H definitions	N/A	Develop new code	Developed new definition for a hard surface to supplement the City's new hard surface dimensional requirement consistent with how hard surface is defined in the Permit/Manual.	Hard Surface. An impervious surface, permeable pavement, or a vegetated roof.	✓		✓
20.50.026 I definitions	Impervious Surface. Any structure or other hard surface affixed to the ground that prevents or retards the entry of water into the soil layer, or that causes water to run off the surface in greater quantities or at an increased rate of flow from the flow rate prior to addition of such surface. "Impervious Surfaces" include, without limitation: structures, including eaves; vehicular, bicycle, pedestrian or other circulation facilities constructed of solid surfaces, including pavement, concrete, u grouted brick or stone; solid decks, patios, sport courts, swimming pools, hot tubs and similar recreation facilities; and landscape features, including sheds, arbors, and play structures.	Amended existing code	Amended existing code to clarify the difference between hard surfaces and impervious surfaces.	Impervious Surface. Any structure or other hard non-vegetated surface affixed to the ground that prevents or retards the entry of water into the soil layer, or that causes water to run off the surface in greater quantities or at an increased rate of flow from the flow rate prior to addition of such surface. "Impervious Surfaces" include, without limitation: structures, including eaves; vehicular, bicycle, pedestrian or other circulation facilities constructed of solid surfaces, including pavement, concrete, u grouted brick or stone; solid decks, patios, sport courts, swimming pools, hot tubs and similar recreation facilities; and landscape features, including sheds, arbors, and play structures.	✓		√
20.50.032 L definitions	Low Impact Development. An approach to land development and stormwater management that reduces adverse impacts while accommodating growth. Key principles include protecting native soils and vegetation and minimizing and managing stormwater at the source.	No changes/ action taken	No revisions proposed; existing code language provides a definition for Low Impact Development that is not inconsistent with that found in the Permit/Manual.	N/A			√
20.50.046 S definitions	Stormwater. Precipitation that does not infiltrate into the soil, or evaporate, but flows over the surface into a pipe or directly to surface water.	No changes/ action taken	No revisions proposed; existing code language defines stormwater that is not inconsistent with that found in the Permit/Manual.	N/A			✓

Table 10 - Land Use Code
Pedestrian Corridor and Major Public Open Space Design Guidelines

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
II. Pedestrian Corridor	Reflect characteristics of this locale: climate, vegetation, and topography.	No changes/	No revisions proposed;	N/A			✓
Design Guidelines - Objectives		action taken	existing code language prioritizes vegetation and topography in the design of the City's pedestrian corridor in the Central Business District.			√	
II. Pedestrian Corridor Design Guidelines - Image	Major public open spaces will be located along the Corridor and will provide a sense of gateway and focal point at regular intervals. An open space of approximately 10,000 square feet will be located at Bellevue Way NE, an open space of approximately 30,000 square feet will be divided equally on either side of the center of the Corridor alignment on the east side of 106th Avenue NE, and another approximately 10,000 square feet of open space will be located in the vicinity of 110th Avenue NE. These spaces will be landscaped and may contain other pedestrian amenities such as: activity	No changes/ action taken	No revisions proposed; existing code language requires landscaping and does not preclude the use of LID BMPs.	N/A			
II Dedectries Consider	areas, event areas, seating, water features, art features, and pedestrian-scaled lighting. The spaces will have abutting pedestrian-oriented frontages and may contain vendors, kiosks, and other activity generating features.	Negleren	Negativ	N/A			
II. Pedestrian Corridor Design Guidelines - Image	The Corridor may provide a canopy of shade trees, seating, water features, kiosks, directional graphics, seasonal plantings, lighting. artwork, and other pedestrian amenities.	No changes/ action taken	No revisions proposed; existing code language requires landscaping and does not preclude the use of LID BMPs.	N/A		√	
II. Pedestrian Corridor Design Guidelines - Image - "Street as Plaza" — Bellevue Way to106th Avenue N.E.	The sidewalk along the south edge will be a minimum of 16 feet wide. The south sidewalk is to be of sufficient width to accommodate a single row of street trees. The vehicle travel lane, or lanes, are to be kept at a maximum width of 10 feet.	No changes/ action taken	No revisions proposed; existing code language requires travel lanes to be a maximum width of 10 feet effectively minimizing impervious surfaces.	N/A	✓		
II. Pedestrian Corridor Design Guidelines - Image - "Garden Hillclimb" — 106th Avenue N.E. to 108th Avenue N.E	The design intent within this section of the Corridor is to give it a gardenlike character in contrast to the more hardscape of the "Street as Plaza" block. A boulevard approach is envisioned. The major flow of people is concentrated along the edges adjacent to the buildings. The center portion would be more green and garden-like providing opportunities for intimate spaces and rest spots along the Corridor. (Each outdoor room could take on its own unique character, perhaps derived from a particular garden theme.) A more diverse and unique plant palette may be used. A variety of annuals and perennials are appropriate to plant in keeping with the garden quality of this block.	No changes/ action taken	No revisions proposed; existing code language prioritizes the use of landscaping in lieu of hardscaping to achieve a "gardenlike" character in the pedestrian corridor.	N/A		√	
II. Pedestrian Corridor Design Guidelines - Image - "Transit Central" — 108th Avenue N.E. to 110th Avenue N.E.	To accomplish this it is suggested that the sidewalk along the north edge be widened. This will provide adequate space to plant a double row of street trees in keeping with the overall theme and pattern of street tree plantings. Widening the north sidewalk will also provide more space for seating, kiosks, vendors, and artwork, therefore activating the Street. It offers a more pleasant space to wait for a bus and gives it relief from the steady stream of busses queuing up. A single row of street trees is to be maintained along the south side strengthening the concept of an asymmetrical street section.	No changes/ action taken	No revisions proposed; existing code language requires landscaping and street trees and does not preclude the use of LID BMPs within the right-ofway though could more explicitly emphasize a	N/A		✓	✓

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why. preference for LID within right-of-way landscaping.	Impervious surfaces	Loss of native vegetation	Stormwater runoff
II. Pedestrian Corridor Design Guidelines	12. Vegetation Intention:	No changes/ action taken	No revisions proposed; existing code language	N/A	✓	
	To enhance the appearance of the Corridor through landscaping and plantings. Accomplished by: Emphasize continuity and the asymmetrical concept of the street section by installing a double row of street trees on the north edge and a single row along the south edge of the Corridor. Street trees are to be of similar species within a specific block, however the species may vary from block to block. Encouraging a variety of plantings and seasonal flowers. Using tree sizes that will have immediate visual impact. Landscaping and plantings should not obstruct pedestrian pathways. Determining appropriate planting details through an ongoing owners' association, in cooperation with the city staff.	action taken	requires a variety of plantings consistent with the character of the Pedestrian Corridor in downtown Bellevue.			
III. Major Public Open Space Design Guidelines	Intention: To provide greenery and vegetation in the Corridor and MPOS, as shown to be a preference among downtown workers and spouses in the Downtown Employees Survey (May 1981). Extensive use of vegetation should be provided, including the use of plantings to define spaces and activity areas, highlight the changing seasons, provide color and greenery throughout the year, express various spatial scales trees/flowers/leaves and petals), contribute to the spatial and visual unity of the MPOS, and provide for important physical and visual connections. The design should accommodate the health and continued maintenance of all plant materials. The MPOS atmosphere should be encouraged to blend with, and extend into, the abutting buildings. Special planting should mark the space as a unique point along the Pedestrian Corridor. **Accomplished by:** Creating colorful planting throughout the year using flowering annuals and perennials along major pedestrian routes and at focal points within the space, and using flowering shrubs and trees and plants with fall color. Providing evergreen planting such as shrubs, annuals, perennials, grass and ground cover. Trees should be predominantly deciduous to allow light through in the winter. Trees should generally be planted flush with the pavement surface in order to facilitate pedestrian movement. However, because of subsurface structural requirements, there may be areas where trees could be in raised planting pockets. In such cases, seating should be incorporated into the raised elements. Lawns or ground covers, if provided, should be protected from major pedestrian circulation routes and other heavy usage by some means, such as curbs or low seating walls. Islands formed by containers or planting beds should define activity areas or special places in the MPOS. They should not block important views or access from the street. Locating plantings so as not to interfere with sitting on ledges. Providing adequate planting specifications and detailing for the healthy growth of pla	No changes/ action taken	No revisions proposed; existing code language focuses on visual appearance, but does not preclude using plantings for bioretention.	N/A		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
IV. Pedestrian Corridor	3. Paving	No changes/	No revisions proposed;	N/A	\checkmark		\checkmark
and Major Public Open	Using standard, rectangularly shaped brick pavers in three related colors as a common	action taken	existing code language				
Space Design Details	paving material throughout the Pedestrian Corridor and Major Public Open Spaces.		allows use of pavers though				
	Brick pavers shall have a rough surface texture and a coarse aggregate throughout to		does not explicitly mention the use of permeable				
	minimize slipping. Brick paver sizes, colors, and textures shall be manufactured to match throughout the Pedestrian Corridor and Major Public Open Spaces.		pavement as being allowed,				
	match throughout the redestrian corndor and major rubile open spaces.		however this can be				
			accomplished through other				
			codes and standards.				
N/A	N/A	No changes/	Overall, this document is	N/A			√
		action taken	old, last revised in 2000. The				V
			plan was adopted before LID				
			techniques were voluntary				
			or required. Much of the				
			work described has been				
			complete. The document				
			will be updated as part of				
			the Grand Connection				
			Planning Initiative, which is				
			now underway d.				

Table 11 - Land Use Code Design Guidelines Building/Sidewalk Relationships, Central Business District

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater
N/A	N/A	No changes/ action taken			✓		✓

Table 12 - Construction Code Chapter 23.76 - Clearing and Grading Code

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
23.76.030 Definitions	"Clearing" means the act of destroying or removing vegetation by any means, including chemical, mechanical, or by hand.	Amend existing code	Developed new definition for clearing to better align with the definition of land disturbing activity in the Phase II Municipal Stormwater Permit.	Clearing" means the act of destroying or removing the existing soil cover (both vegetative and nonvegetative).			
23.76.030 Definitions	N/A	Develop new code	Developed new definition for a hard surface to supplement the City's new hard surface dimensional requirement consistent with definition in the Permit and Manual.	"Hard Surface" means an impervious surface, a permeable pavement, or a vegetated roof.	√		✓
23.76.030 Definitions	"Impervious surface" means a hard surface area that either prevents or retards the entry of water into the soil mantle as under natural conditions prior to development. It is also a hard surface area which causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions prior to development. Common impervious surfaces include, but are not limited to, roof tops, walkways, patios, driveways, parking lots or storage areas, concrete or asphalt paving, gravel roads, packed earthen materials, and oiled macadam or other surfaces that similarly impede the natural infiltration of stormwater. Open, uncovered retention/detention facilities shall not be considered as impervious surfaces for purposes of determining whether the thresholds for application of minimum requirements are exceeded. Open, uncovered retention/detention facilities shall be considered impervious surfaces for purposes of runoff modeling.	Amended existing code	Revised the existing definition to align with the definition in the Phase II Municipal Stormwater Permit	"Impervious surface" means a non-vegetated surface area that either prevents or retards the entry of water into the soil mantle as under natural conditions prior to development. It is also a non-vegetated surface area which causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions prior to development. Common impervious surfaces include, but are not limited to, roof tops, walkways, patios, driveways, parking lots or storage areas, concrete or asphalt paving, gravel roads, packed earthen materials, and oiled macadam or other surfaces which that similarly impede the natural infiltration of stormwater. Open, uncovered retention/detention facilities shall not be considered as impervious surfaces for purposes of determining whether the thresholds for application of minimum requirements are exceeded. Open, uncovered retention/detention facilities shall be considered impervious surfaces for purposes of runoff modeling.	✓		•
23.76.030 Definitions	N/A	Develop new code	Developed new definition for low impact development and low impact development best management practices consistent with the definition in the Permit and Manual.	"Low Impact Development (LID)" means a stormwater and land use management strategy that strives to mimic pre-disturbance hydrologic processes of infiltration, filtration, storage, evaporation and transpiration by emphasizing conservation, use of on-site natural features, the planning, and distributed stormwater management practices that are integrated into a project design. "Low impact development (LID) best management practices" means distributed stormwater management practices, integrated into a project design, that emphasize pre-disturbance hydrologic processes of infiltration, filtration, storage, evaporation and transpiration. LID BMPs include, but are not limited to, bioretention/rain gardens, permeable pavements, roof downspout controls, dispersion, soil quality and depth, vegetated roofs, minimum excavation foundations, and water re-use.	✓	✓	

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	
23.76.030 Definitions	N/A	Develop new code	Developed new definition for permeable pavement consistent with the definition in the Permit and Manual.	"Permeable pavement" means pervious concrete, porous asphalt, permeable pavers or other forms of pervious or porous paving material intended to allow passage of water through the pavement section. It often includes an aggregate base that provides structural support and acts as a stormwater reservoir.	✓		
23.76.030 Definitions	N/A	Develop new code	Developed new definition for rain garden consistent with the definition in the Permit and Manual.	"Rain Garden" means a non-engineered shallow landscaped depression, with compost-amended native soils and adapted plants. The depression is designed to pond and temporarily store stormwater runoff from adjacent areas, and to allow stormwater to pass through the amended soil profile.			✓
23.76.030 Definitions	N/A	Develop new code	Developed new definition for vegetated roof consistent with the definition in the Permit and Manual.	"Vegetated roof" means thin layers of engineered soil and vegetation constructed on top of a conventional flat or sloped roof. All vegetated roofs consist of four basic components: a waterproof membrane, a drainage layer, a light-weight growth medium, and vegetation.			✓
23.76.035 Permit requirements.	A clearing and grading permit is required for a project that involves any of the following described in subsections (A)(1) through (8) of this section, except as provided for in subsection B of this section. In applying this section, the total proposal shall be considered. Any project that requires a permit shall also comply with applicable provisions of Chapter 24.06 BCC, BCC Title 20, and any other applicable city codes. 1. Any clearing, filling, or excavation in a critical area or critical area buffer; 2. Fill and/or excavation totaling over 50 cubic yards. Quantities of fill and excavation are separately calculated and then added together, even if excavated material is used as fill on the same site; 3. Creation or addition of 2,000 square feet, or greater, of new, replaced, or new plus replaced impervious surface area; 4. Over 1,000 square feet of clearing, as measured at the ground level. Clearing includes disturbance of over 1,000 square feet at grade due to removal or pruning of trees; 5. Rockeries and modular block walls over four feet in height as measured from the bottom of the base rock or block; 6. Removal of more than 25 percent of the live crown of any significant tree, as defined in LUC 20.50.046, that is required to be preserved by a city code, plat condition, or other requirement. The live crown is the crown of the tree containing live foliage; 7. Any regrading or repaving of a parking lot used for stormwater detention; and 8. Removal of any significant tree from any lot in an R-1 land use district in the Bridle Trails subarea, pursuant to the provisions of LUC 20.20.900, now or as hereafter amended. 8. The following activities are exempt from the requirements for a clearing and grading permit: 1. Agricultural crop management of existing farmed areas; 2. Routine landscape maintenance, as described in LUC 20.25H.055(C)(3)(h), now or as hereafter amended; 3. Work needed to correct an immediate danger to life or property in an emergency situation as declared by the mayor or the city ma	Amended existing code	Amended code to be consistent with the thresholds in the Permit/Manual for new and redevelopment and to clarify how many trees may be removed prior to obtaining a clearing and grading permit.	A clearing and grading permit is required for a project that involves any of the following described in subsections {A,}{1} through {8 9} of this section, except as provided for in subsection B of this section. In applying this section, the total proposal shall be considered. Any project that requires a permit shall also comply with applicable provisions of Chapter 24.06 BCC, BCC Title 20, and any all other applicable city codes. 1. Any clearing, filling, or excavation in a critical area or critical area buffer; 2. Fill and/or excavation totaling over 50 cubic yards. Quantities of fill and excavation are separately calculated and then added together, even if excavated material is used as fill on the same site; 3. Creation or addition of 2,000 square feet, or greater, of new, replaced, or new plus replaced impervious hard surface area within a 1-year period; 4. Over 1,000 square feet of clearing, as measured at the ground level within a 1-year period. Clearing includes disturbance of over 1,000 square feet at grade due to removal or pruning of trees; 5. Construction or reconstruction of Rrockeries and modular block walls over four feet in height as measured from the bottom of the base rock or block; 6. Removal of more than 5 significant trees, as defined in LUC 20.50.046, now or as hereafter amended, within any 3-year period; 6-7. Removal of more than 25 percent of the live crown of any significant tree, as defined in LUC 20.50.046, now or as hereafter amended, that is required to be preserved by a city code, plat condition, or other requirement. The live crown is the crown of the tree containing live foliage. Pruning allowed by this subsection must be performed in accordance with applicable provisions of the Land Use Code; 7-8. Any regrading or repaving of a parking lot used for stormwater detention; and 8-9. Removal of any significant tree from any lot in an R-1 land use district in the Bridle Trails subarea, pursuant to the provisions of LUC 20.20.900, now or as hereafter amended. B. The following ac			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	4. Cemetery graves involving less than 50 cubic yards of excavation, and related filling, per each cemetery plot; 5. Routine drainage maintenance of existing, constructed stormwater drainage facilities located outside of a critical area or critical area buffer, including, but not limited to, detention/retention ponds, wetponds, sediment ponds, constructed drainage swales, water quality treatment facilities such as filtration systems, and regional stornwater facilities that are necessary to preserve the water quality treatment and flow control functions of the facility. This exemption does not apply to any expansion and/or modification to already excavated and constructed stormwater drainage facilities; or 6. Roadway repairs and overlays within public street rights-of-way for the purpose of maintaining the pavement on existing paved roadways, such that asphalt removal or milling does not expose more than 1,000 square feet of gravel base or subgrade. This exemption does not apply to curbs, gutters, sidewalks, utilities, new traffic calming devices, new roadways, or the widening of the paved surface of existing roadways. C. An exemption from a clearing and grading permit does not exempt the person or property owner doing the work from meeting all applicable city codes, including, but not limited to, the storm and surface water utility code (Chapter 24.06 BCC), which requires that sediment and other pollutants be kept from the drainage system. D. The director may categorize clearing and grading permits by different types. A clearing and grading permit may be issued as a component of a building permit, or other permit, rather than as a separate permit. The director may require that single-family building permit may be issued as a component of a building permit, or other permit, rather than as a separate permit. The director may require types. A clearing and grading permit and grading permits be combined. E. The director shall specify what submittal and application materials are required for a complete clearing			2. Routine landscape maintenance, as described in LUC 20.25H.055₂tC₂⅓₃th), now or as hereafter amended; 3. Work needed to correct an immediate danger to life or property in an emergency situation as declared by the mayor or the city manager or his/her designee; 4. Cemetery graves involving less than 50 cubic yards of excavation, and related filling, per each cemetery plot; 5. Routine drainage maintenance of existing, constructed stormwater drainage facilities located outside of a critical area or critical area buffer, including, but not limited to, detention/retention ponds, wetponds, sediment ponds, constructed drainage swales, water quality treatment facilities such as filtration systems, and regional stormwater facilities that are necessary to preserve the water quality treatment and flow control functions of the facility. This exemption does not apply to any expansion and/or modification to already excavated and constructed stormwater drainage facilities; or 6. Roadway repairs and overlays within public street rights-of-way for the purpose of maintaining the pavement on existing paved roadways, such that asphalt removal or milling does not expose more than 1,000 square feet of gravel base or subgrade. This exemption does not apply to curbs, gutters, sidewalks, utilities, new traffic calming devices, new roadways, or the widening of the paved surface of existing roadways. C. An exemption from a clearing and grading permit does not exempt the person or property owner doing the work from meeting all applicable city codes, including, but not limited to, the storm and surface water utility code (Chapter 24.06 BCC), which requires that sediment and other pollutants be kept from the drainage system. D. The director-Director may categorize clearing and grading permits by different types. A clearing and grading permit may be issued as a component of a building permit, or other permit, rather than as a separate permit. The director-Director may require that single-family building permits and clearing and grading per			
23.76.060 Clearing - Vegetation preservation and replacement	The applicant/permittee shall: A. Meet applicable Land Use Code requirements for tree retention and vegetation preservation, disturbance limitation, and new landscaping (including but not limited to LUC 20.20.520, Landscape development; LUC 20.20.900, Tree retention; Part 20.25H LUC, Critical Areas Overlay District; and Part 20.25E LUC, Shoreline Overlay District, now or as hereafter amended). B. Preserve natural vegetation for erosion and sedimentation control and water quality	Amended existing code	Amended code to require a tree protection plan to be submitted along with other clearing and grading plans.	The applicant/permittee shall: A. Meet applicable Land Use Code requirements for tree retention and vegetation preservation, disturbance limitation, and new landscaping (including but not limited to LUC 20.20.520, Landscape development; LUC 20.20.900, Tree retention and replacement; Part 20.25H LUC, Critical Areas Overlay District; and Part 20.25E LUC, Shoreline Overlay District, now or as hereafter amended). B. Preserve natural vegetation for erosion and sedimentation control and water quality		√	√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Code reference	and quantity control as detailed in the clearing and grading development standards. C. Follow the methodology in the clearing and grading development standards (or equivalent methodology approved by the director) for preserving/replacing vegetation.	requirements	explain willy.	and quantity control as detailed in the clearing and grading development standards. C. Follow the methodology in the clearing and grading development standards (or equivalent methodology approved by the director) for preserving/replacing vegetation. D. Mark clearing limits in the field prior to clearing. D.E. Incorporate a tree protection plan into the clearing and grading drawings. The tree protection plan shall define spatial limits for tree protection and include detailed drawings of tree protection and mitigation. The plan must be prepared by a certified arborist or a registered landscape architect, and shall become part of all construction documentation. (Note: in most instances, the tree survey can serve as the basis for the tree preservation information.) E.F. When clearing activity is interrupted or suspended for any reason, the permittee shall stabilize the site(s) and maintain the erosion control BMPs consistent with BCC 23.76.090 and the clearing and grading development standards, now or as hereafter amended. If the city deems a construction site abandoned, the applicant or permittee shall install permanent erosion and sedimentation measures pursuant to BCC			
23.76.090 Erosion and sedimentation control - Minimum requirement 2.	D. Construction Stormwater Pollution Prevention Plan (CSWPPP) Elements. The applicant shall include each of the 12 elements below in the CSWPPP and ensure that they are implemented, unless site conditions render the element unnecessary and the exemption from that element is clearly justified in the CSWPPP. The CSWPPP shall include a narrative, drawings, and a turbidity and pH monitoring plan as described in the clearing and grading development standards. All BMPs shall be clearly referenced in the narrative and marked on the drawings. The CSWPPP narrative shall include documentation to explain and justify the pollution prevention decisions made for the project. 1. Preserve Vegetation/Mark Clearing Limits. a. Before beginning land disturbing activities, including clearing and grading, clearly mark all clearing limits, critical areas and critical area buffers, and trees that are to be preserved within the construction area. b. The duff layer, native topsoil, and natural vegetation shall be retained in an undisturbed state to the maximum degree practicable, and, where applicable, meet the requirements of LUC 20.20.520. 2. Establish Construction Access. a. Construction vehicle access and exit shall be limited to one route, if possible. b. Access points shall be stabilized with quarry spalls, crushed rock, or other equivalent BMP to minimize the tracking of sediment onto public roads. c. Wheel wash or tire baths shall be located onsite, if the stabilized construction entrance is not effective in preventing sediment from being tracked onto public roads. d. If sediment is tracked off site roads shall be cleaned thoroughly as directed by the city or at a minimum at the end of each day, or more frequently during wet weather. Sediment shall be removed from roads by shoveling or pickup sweeping and shall be transported to a controlled sediment disposal area. e. Street washing is allowed only after sediment is removed in accordance with subsection (D)(2)(d) of this section. Street wash wastewater shall be controll	Amended existing code	Amended code to be consistent with the requirements in the Permit/Manual.	D. Construction Stormwater Pollution Prevention Plan (CSWPPP) Elements. The applicant shall include each of the 12all elements below in the CSWPPP and ensure that they are implemented, unless site conditions render the element unnecessary and the Director determines that the exemption from that element is clearly justified based onin the CSWPPP. The CSWPPP shall include a narrative, drawings, and a turbidity and pH monitoring plan as described in the clearing and grading development standards. All BMPs shall be clearly referenced in the narrative and marked on the drawings. The CSWPPP narrative shall include documentation to explain and justify the pollution prevention decisions made for the project. 1. Preserve Vegetation/Mark Clearing Limits. a. Before beginning land disturbing activities, including clearing and grading, clearly mark all clearing limits, critical areas and critical area buffers, and trees that are to be preserved within the construction area. b. Retain 1the duff layer, native topsoil, and natural vegetation shall be retained in an undisturbed state to the maximum degree practicable, and, where applicable, meet the requirements of LUC 20.20.520, now or as hereafter amended. 2. Establish Construction vehicle access and exit shall be limited to one route, if possible. b. Stabilize Aaccess points shall be stabilized with a pad of quarry spalls, crushed rock, or other equivalent BMPs to minimize the tracking of sediment onto public roads. c. Locate Wwheel wash or tire baths shall be located on-site, if the stabilized construction entrance is not effective in preventing tracking sediment from being tracked onto public roads. d. If sediment is tracked off site, clean the affected roadways shall be cleaned thoroughly as directed by the city or at a minimum at the end of each day, or more frequently as necessary (for example during wet weather). Remove Sediment shall be transported the sediment to a controlled sediment disposal area. e. Conduct Setreet washing is allowed only after sediment is			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
COME TETETETICE	b. Where necessary to comply with subsection (D).(3.)(a) of this section, stormwater	годинения	CAPIGITI WITY.	3. Control Flow Rates.			
	retention or detention facilities shall be constructed as one of the first steps in grading.			a. Protect properties and waterways downstream from of development sites shall be			
	Detention facilities shall be functional before construction of site improvements (e.g.,			protected from erosion and the associated discharge of turbid waters due to increases			
	impervious surfaces).			in the velocity and peak volumetric flow rate of stormwater runoff from the project			
	c. If permanent infiltration ponds are used for flow control during construction, these			site.			
	facilities should be protected from siltation during the construction phase.			b. Where necessary to comply with subsection {D}.(3.)(a) of this section, construct			
	4. Install Sediment Controls.			stormwater retention or detention facilities shall be constructed as one of the first			
	a. Stormwater runoff from disturbed areas shall pass through a sediment pond, or			steps in grading. Assure that Ddetention facilities shall be functional properly before			
	other appropriate sediment removal BMP, before leaving a construction site or prior to			constructingon of site improvements (e.g., impervious surfaces).			
	discharge to an infiltration facility. Runoff from fully stabilized areas may be discharged			c. If permanent infiltration ponds are used for flow control during construction, protect			
	without a sediment removal BMP, but shall meet the flow control performance			these facilities should be protected from siltation during the construction phase.			
	standard of subsection (D)(3)(a) of this section.			4. Install Sediment Controls.			
	b. Sediment control BMPs (sediment ponds, traps, filters, etc.) shall be constructed as			a. Design, install and maintain effective erosion controls and sediment controls to			
	one of the first steps in grading. These BMPs shall be functional before other land-			minimize the discharge of pollutants. Stormwater runoff from disturbed areas shall			
	disturbing activities take place.			pass through a sediment pond, or other appropriate sediment removal BMP, before			
	c. BMPs intended to trap sediment on site shall be located in a manner to avoid			leaving a construction site or prior to discharge to an infiltration facility. Runoff from			
	interference with the movement of juvenile salmonids attempting to enter off-channel			fully stabilized areas may be discharged without a sediment removal BMP, but shall			
	areas or drainages.			meet the flow control performance standard of subsection (D)(3)(a) of this section.			
	5. Stabilize Soils.			b. Construct Sediment control BMPs (sediment ponds, traps, filters, etc.) shall be			
	a Exposed and unworked soils by application of effective BMPs described in the			constructed as one of the first steps in grading. These BMPs shall be functional before			
	clearing and grading development standards that prevent erosion			other land-disturbing activities take place. c. Minimize sediment discharges from the site. The design, installation and			
	b. To prevent erosion, no soils shall must should remain exposed and unworked for more than the time periods set forth below:			maintenance of erosion and sediment controls must address factors such as the			
	i. During the dry season (May 1st – September 30th): seven days.			amount, frequency, intensity and duration of precipitation, the nature of resulting			
	ii. During the wet season (October 1st – April 30th): one day.			stormwater runoff, and soil characteristics, including the range of soil particle sizes			
	c. The time period may be adjusted by the city, if the permittee can show that local			expected to be present on the site.			
	precipitation data justify a different standard.			d. Direct stormwater runoff from disturbed areas through a sediment pond or other			
	d. Soils shall be stabilized at the end of the shift before a holiday or weekend, if			appropriate sediment removal BMP, before the runoff leaves a construction site or			
	needed, based on the weather forecast.			before discharge to an infiltration facility. Runoff from fully stabilized areas may be			
	e. Soil stockpiles must be stabilized from erosion, protected with sediment trapping			discharged without a sediment removal BMP, but must meet the flow control			
	measures, and, where possible, be located away from the storm and surface water			performance standard in (D.)(3.)(a), above.			
	system and receiving waters.			c.e. Locate BMPs intended to trap sediment on-on-site shall be located in a manner to			
	6. Protect Slopes.			avoid interference with the movement of juvenile salmonids attempting to enter off-			
	a. Comply with applicable provisions of BCC 23.76.080.			channel areas or drainages.			
	b. Design and construct cut and fill slopes to minimize erosion.			f. Where feasible, design outlet structures that withdraw impounded stormwater from			
	c. Off-site stormwater (run-on) or groundwater shall be diverted away from slopes and			the surface to avoid discharging sediment that is still suspended in the water column.			
	undisturbed areas with interceptor dikes, pipes, and/or swales. Off-site stormwater			5. Stabilize Soils.			
	should be managed separately from stormwater generated on the site.			a. <u>Stabilize</u> <u>Ee</u> xposed and unworked soils <u>shall be stabilized</u> by application of effective			
	d. At the top of slopes, collect drainage in pipe slope drains or protected channels to			BMPs described in the clearing and grading development standards that prevent			
	prevent erosion.			erosion. Applicable BMPs include, but are not limited to: temporary and permanent			
	e. Temporary pipe slope drains shall handle the peak 10-minute flow velocity from a			seeding, sodding, mulching, plastic covering, erosion control fabrics and matting, soil			
	Type 1A, 10-year, 24-hour frequency storm for the developed condition. Alternatively,			application of polyacrylamide (PAM), the early application of gravel base early on areas			
	the 10-year, one-hour flow rate predicted by an approved continuous runoff model,			to be paved, and dust control.			
	increased by a factor of 1.6, may be used. The hydrologic analysis shall use the existing			b. Control stormwater volume and velocity within the site to minimize soil erosion.			
	land cover condition for predicting flow rates from tributary areas outside the project			c. Control stormwater discharges, including both peak flow rates and total stormwater			
	limits. For tributary areas on the project site, the analysis shall use the temporary or permanent project land cover condition, whichever will produce the highest flow rates.			volume, to minimize erosion at outlets and to minimize downstream channel and			
	If using the Western Washington Hydrology Model to predict flows, bare soil areas			stream bank erosion. b.d. To prevent erosion, no sSoils shall must must not should remain exposed and			
	should be modeled as "landscaped area."			unworked for more than the time periods set forth below:			
	f. Excavated material shall be placed on the uphill side of trenches, consistent with			i. During the dry season (May 1st – September 30th): seven-7 days.			
	1. Excavated material shall be placed on the upinil side of trenches, consistent with		27	i. During the dry season (way 1st - september sour). seven 1 udys.			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
22301010100	safety and space considerations.			ii. During the wet season (October 1st – April 30th): one-2 days.			
	g. Check dams shall be placed at regular intervals within constructed channels that are			c. The time period may be adjusted by the city, if the permittee can show that local			
	cut down a slope.			precipitation data justify a different standard.			
	7. Protect Drain Inlets.			d.e. Stabilize soils shall be stabilized at the end of the shift before a holiday or			
	a. Storm drain inlets made operable during construction shall be protected so that stormwater runoff does not enter the conveyance system without first being filtered or			weekend, if needed, based on the weather forecast. e.f. Stabilize soil stockpiles must be stabilized from erosion, protected with sediment			
	treated to remove sediment.			trapping measures, and, where possible, be-located away from the storm and surface			
	b. Inlet protection devices shall be cleaned or removed and replaced when sediment			water system and receiving waters.			
	has filled one-third of the available storage (unless a different standard is specified by			g. Minimize the amount of soil exposed during construction activity.			
	the product manufacturer).			h. Minimize the disturbance of steep slopes.			
	8. Stabilize Channels and Outlets.			i. Minimize soil compaction and , unless infeasible, preserve topsoil.			
	a All temporary on-site conveyance channels shall be designed, constructed, and			6. Protect Slopes.			
	stabilized to prevent erosion from the following expected peak flows. Channels shall			a. Comply with applicable provisions of BCC 23.76.080, now or as hereafter amended.			
	handle the expected peak 10-minute flow velocity from a Type 1A, 10-year, 24-hour			b. Design and construct cut and fill slopes in a manner to minimize erosion. Applicable			
	frequency storm for the developed condition. Alternatively, the 10-year, one-hour flow			practices include, but are not limited to, reducing continuous length of slope with			
	rate predicted by an approved continuous runoff model, increased by a factor of 1.6,			terracing and diversion, reducing slope steepness, and roughening slope surfaces (for			
	may be used. The hydrologic analysis shall use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas			example, track walking). c. <u>Divert Oo</u> ff-site stormwater (run-on) or groundwater shall be diverted away from			
	on the project site, the analysis shall use the temporary or permanent project land			slopes and un disturbed areas with interceptor dikes, pipes, and/or swales. Off-site			
	cover condition, whichever will produce the highest flow rates. If using the Western			stormwater should be managed separately from stormwater generated on the site.			
	Washington Hydrology Model to predict flows, bare soil areas should be modeled as			d. At the top of slopes, collect drainage in pipe slope drains or protected channels to			
	"landscaped area."			prevent erosion.			
	b. Stabilization, including armoring material, adequate to prevent erosion of outlets,			e. Temporary pipe slope drains shall must handle the expected peak 10-minute flow			
	adjacent stream banks, slopes, and downstream reaches shall be provided at the			velocity of flow from a Type 1A, 10-year, 24-hour frequency storm for the developed			
	outlets of all conveyance systems.			condition. Alternatively, the 10-year, one-hour flow rate predicted by an approved			
	9. Control Pollutants.			continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic			
	a. All pollutants, including waste materials and demolition debris, that occur onsite shall be handled and disposed of in a manner that does not cause contamination of			analysis shall must use the existing land cover condition for predicting flow rates from tributary areas outside the project limits. For tributary areas on the project site, the			
	stormwater.			analysis shall must use the temporary or permanent project land cover condition,			
	b. Cover, containment, and protection from vandalism shall be provided for all			whichever will produce the highest flow rates. If using the Western Washington			
	chemicals, liquid products, petroleum products, and other materials that have the			Hydrology Model to predict flows, bare soil areas should shall be modeled as			
	potential to pose a threat to human health or the environment. On-site fueling tanks			"landscaped area."			
	shall include secondary containment.			f. Place Eexcavated material shall be placed on the uphill side of trenches, consistent			
	c. Maintenance, fueling, and repair of heavy equipment and vehicles shall be			with safety and space considerations.			
	conducted using spill prevention and control measures. Clean contaminated surfaces			g. Place Ccheck dams shall be placed at regular intervals within constructed channels			
	shall be cleaned immediately following any spill incident.			that are cut down a slope.			
	d. Wheel wash or tire bath wastewater shall be discharged to a separate on-site			7. Protect Drain Inlets. a. Protect Sstorm drain inlets made operable during construction shall be protected so			
	treatment system or to the sanitary sewer upon approval by the King County Wastewater Treatment Division and the city's utilities department.			that stormwater runoff does not enter the conveyance system without first being			
	e. Application of fertilizers and pesticides shall be conducted in a manner and at			filtered or treated to remove sediment.			
	application rates that will not result in loss of chemicals to stormwater runoff.			b. <u>Clean or remove and replace linlet protection devices shall be cleaned or removed</u>			
	Manufacturers' label requirements for application rates and procedures shall be			and replaced when sediment has filled one-third of the available storage (unless a			
	followed.			different standard is specified by the product manufacturer).			
	f. BMPs shall be used to prevent or treat contamination of stormwater runoff by pH			8. Stabilize Channels and Outlets.			
	modifying sources. These sources include, but are not limited to: bulk cement, cement			a. <u>Design, construct, and stabilize</u> <u>Aa</u> ll temporary on-site conveyance channels shall be			
	kiln dust, fly ash, new concrete washing and curing waters, waste streams generated			designed, constructed, and stabilized to prevent erosion from the following expected			
	from concrete grinding and sawing, exposed aggregate processes, dewatering concrete			peak flows. Channels shall-must handle the expected-indicated peak 10-minute flow			
	vaults, concrete pumping and mixer washout waters.			velocity from a Type 1A, 10-year, 24-hour frequency storm for the developed			
	g. Permittees are required to adjust the pH of stormwater if necessary to prevent violations of water quality standards.			condition. Alternatively, the 10-year, one-hour flow rate predicted by an approved			
	violations of water quality standards.		20	continuous runoff model, increased by a factor of 1.6, may be used. The hydrologic			

Codo vefevenes	Existing molicular groups	Action taken to meet permit	Describe revision(s) made to meet permit requirements OR if no revision(s) were made,	Amandad anda laumunga	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Code reference	h. Permittees are required to obtain written approval from the Washington State	requirements	explain why.	Amended code language analysis shall-must use the existing land cover condition for predicting flow rates from			
	Department of Ecology before using chemical treatment other than CO2 or dry ice to			tributary areas outside the project limits. For tributary areas on the project site, the			
	adjust pH. Permittees shall provide the city with a copy of Ecology's written approval			analysis shall use the temporary or permanent project land cover condition, whichever			
	before commencing treatment.			will produce the highest flow rates. If using the Western Washington Hydrology Model			
	10. Control Dewatering.			to predict flows, bare soil areas should be modeled as "landscaped area."			
	a. Foundation, vault, and trench de-watering water, which have similar characteristics			b. Provide Sstabilization, including armoring material, adequate to prevent erosion of			
	to stormwater runoff at the site, shall be discharged into a controlled conveyance			outlets, adjacent stream banks, slopes, and downstream reaches shall be provided at			
	system prior to discharge to a sediment trap or sediment pond.			the outlets of all conveyance systems.			
	b. Clean, nonturbid water from dewatering activities, such as well-point ground water,			9. Control Pollutants.			
	can be discharged to the storm and surface water system or directly into receiving			a. Design, install, implement and maintain effective pollution prevention measures to			
	waters; provided the dewatering flow does not cause erosion or flooding of receiving			minimize the discharge of pollutants.			
	waters. Clean dewatering water should not be routed through stormwater sediment			a.b. Handle and dispose Aall pollutants, including waste materials and demolition			
	ponds.			debris, that occur on on-site shall be handled and disposed of in a manner that does			
	c. Other dewatering disposal options may include:			not cause contamination of stormwater. b.c. Provide Ccover, containment, and protection from vandalism shall be provided for			
	(i) infiltration; (ii) transport off site in vehicle, such as a vacuum flush truck, for legal disposal in a			all chemicals, liquid products, petroleum products, and other materials that have the			
	manner that does not pollute receiving waters;			potential to pose a threat to human health or the environment. On-site fueling tanks			
	(iii) on-site chemical treatment or other suitable treatment technologies approved by			shall must include secondary containment. Secondary containment means placing			
	the city;			tanks or containers within an impervious structure capable of containing 110% of the			
	(iv) sanitary sewer discharge upon approval from the King County Wastewater			volume contained in the largest tank within the containment structure. Double walled			
	Treatment Division and the city's utilities department, if there is no other option; or			tanks do not require additional secondary containment.			
	(v) use of a sedimentation bag with outfall to a ditch or swale for small volumes of			c.d. Conduct Mm aintenance, fueling, and repair of heavy equipment and vehicles shall			
	localized dewatering.			be conducted using spill prevention and control measures. Clean contaminated			
	c. Highly turbid or contaminated de-watering water shall be handled separately from			surfaces shall be cleaned immediately following any spill incident.			
	stormwater.			d.e. Discharge Wwheel wash or tire bath wastewater shall be discharged to a separate			
	11. Maintain BMPs.			on-site treatment system that prevents discharge to surface water, such as closed loop			
	a. All temporary and permanent erosion and sediment control BMPs shall be inspected,			recirculation or upland application, or to the sanitary sewer upon approval by the King			
	maintained and repaired as needed to assure continued performance of their intended			County Wastewater Treatment Division and the city's utilities department.			
	function in accordance with BMP specifications.			e.f. Applyication of fertilizers and pesticides shall be conducted in a manner and at			
	b. All temporary erosion and sediment control BMPs shall be removed within 30 days			application rates that will not result in loss of chemicals to stormwater runoff. Follow			
	after final site stabilization is achieved or after the temporary BMPs are no longer			Mmanufacturers' label requirements for application rates and procedures shall be			
	needed. 12. Manage the Project.			followed. f.g. Use BMPs shall be used to prevent or treat contamination of stormwater runoff by			
	a. Development projects shall be phased to the maximum degree practicable and shall			pH modifying sources. These sources for this contamination include, but are not limited			
	take into account seasonal work limitations.			to: bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters,			
	b. Permittees shall maintain, and repair as needed, all sediment and erosion control			waste streams generated from concrete grinding and sawing, exposed aggregate			
	BMPs to assure continued performance of their intended function.			processes, dewatering concrete vaults, concrete pumping and mixer washout waters.			
	c. Permittees are required to periodically inspect their sites. Site inspections shall be			g.h. Adjust the pH of stormwater Permittees are required to adjust the pH of			
	conducted by a certified erosion and sediment control lead who shall be identified in			stormwater if necessary to prevent violations of water quality standards.			
	the CSWPPP and shall be present on site or on call at all times.			i. Assure that washout of concrete trucks is performed off-site or in designated			
	Permittees are required to maintain, update and implement their CSWPPP. Permittees			concrete washout areas only. Do not wash out concrete trucks onto the ground, or into			
	are required to modify their CSWPPP whenever there is a change in design,			storm drains, open ditches, streets or streams. Do not dump excess concrete on-site,			
	construction, operation, or maintenance at the construction site that has, or could			except in designated concrete washout areas. Concrete spillage or concrete discharge			
	have, a significant effect on the discharge of pollutants to the storm and surface water			to surface waters of the state is prohibited.			
	system or receiving waters.			h.j. Permittees are required to oobtain written approval from the Washington State			
	E. Additional Erosion and Sedimentation Control Requirements.			Department of Ecology before using chemical treatment other than CO2 or dry ice to			
	1. In addition to the 12 CSWPPP elements listed in subsection D of this section, the Director may impose the following extraordinary BMPs or other additional measures,			adjust pH. Permittees shall provide the city with a copy of Ecology's written approval before commencing treatment.			
	as appropriate for the project:			10. Control Dewatering.			
	a. Funding additional city inspection time, up to a full-time inspector;			a. <u>Discharge</u> Ffoundation, vault, and trench de-watering water, which have similar			
	a. I differing additional city inspection time, up to a full-time inspector,	<u> </u>	20	a. District Touristion, valid, and tremen de-watering water, which have similar	l		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
	b. Stopping work if necessary to control erosion and sedimentation; or c. Constructing additional erosion and sedimentation BMPs. 2. If the initially implemented BMPs do not adequately control pollutants, erosion, and sedimentation, additional BMPs shall be installed, including but not limited to the extraordinary BMPs described in subsection (E.)(1) of this section. It is the permittee's responsibility to ensure sediment or other pollutants do not leave the site and enter the storm and surface water system or receiving waters in an amount that would violate the discharge prohibitions set forth in BCC 24.06.125. F. Permanent Erosion and Sedimentation Control. 1. Permanent erosion and Sedimentation control shall be provided per the clearing and grading development standards. Disturbed areas of the site that are not covered by permanent improvements such as buildings, parking lots, and decks shall be mulched or vegetated. 2. The permittee must complete the required permanent erosion control within seven days of completed grading unless the weather is unsuitable for transplanting. In that case, the permittee must maintain temporary erosion control until permanent restoration can be completed. The period between work completion and final planting shall not exceed six months without written authorization from the Director.			characteristics to stormwater runoff at the site, shall be discharged into a controlled conveyance system prior to before discharge to a sediment trap or sediment pond. b. Discharge Celean, nonturbid water from dewatering activities, such as well-point ground water, can be discharged to the storm and surface water system or directly into receiving waters. Po not route Celean dewatering flow does not cause erosion or flooding of receiving waters. Do not route Celean dewatering water should not be routed through stormwater sediment ponds. Note that "surface waters of the State" may exist on a construction site; for example, a creek running through the site. C. Handle highly turbid or otherwise contaminated dewatering water separately from stormwater. e.d. Other treatment or dewatering disposal options may include: (i) ijnfiltration; (ii) Transport eff-site offsite in vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute receiving waters; (iii) Ecology-approved on-site chemical treatment or other suitable treatment technologies approved by the city; (iv) Sanitary sewer discharge upon approval from the King County Wastewater Treatment Division and the city's utilities department, if there is no other option; or (v) eUse of a sedimentation bag with outfall to a ditch or swale for small volumes of localized dewatering. - Highly turbid or contaminated de watering water-shall be handled separately from stormwater. 11. Maintain BMPs. a. Maintain BMPs. a. Maintain and repair Aall temporary and permanent erosion and sediment control BMPs shall be inspected, maintained and repaired as needed to assure continued performance of their intended function in accordance with BMP specifications. b. Remove Aall temporary erosion and sediment control BMPs shall be removed within 30 days after achieving final site stabilization is achieved or after the temporary BMPs are no longer needed. 12. Manage the Project. a. Phase Bydevelopment projects shall be phased to the maximum degree p			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
				their fully functioning condition if they accumulate sediment during construction.			
				Restoring the BMP must include removal of sediment and any sediment-laden			
				Bioretention/rain garden soils, and replacing the removed soils with soils meeting the			
				design specification.			
				b. Prevent compacting Bioretention and Rain Garden BMPs by excluding construction			
				equipment and foot traffic. Protect completed lawn and landscaped areas from			
				compaction due to construction equipment. c. Control erosion and avoid introducing sediment from surrounding land used onto			
				permeable pavements. Do not allow muddy construction equipment on the base			
				material or pavement. Do not allow sediment laden runoff onto permeable pavements			
				or base materials.			
				d. Pavements fouled with sediments or no longer passing an initial infiltration test must			
				be cleaned using procedures from the City of Bellevue stormwater manual (now or			
				hereafter amended), or the manufacturer's procedures.			
				e. Keep all heavy equipment off existing soils under LID BMPs that have been			
				excavated to final grade to retain the infiltration rate of the soils.			
				E. Additional Erosion and Sedimentation Control Requirements.			
				1. In addition to the 12 CSWPPP elements listed in subsection D of this section, the			
				Director may impose the following extraordinary BMPs or other additional measures, as appropriate for the project:			
				a. Funding additional city inspection time, up to a full-time inspector;			
				b. Stopping work if necessary to control erosion and sedimentation; or			
				c. Constructing additional erosion and sedimentation BMPs.			
				2. If the initially implemented BMPs do not adequately control pollutants, erosion, and			
				sedimentation, additional BMPs shall be installed, including but not limited to the			
				extraordinary BMPs described in subsection (E_)(1) of this section. It is the permittee's			
				responsibility to ensure sediment or other pollutants do not leave the site and enter			
				the storm and surface water system or receiving waters in an amount that would			
				violate the discharge prohibitions set forth in BCC 24.06.125, now or as hereafter			
				amended.			
				F. Permanent Erosion and Sedimentation Control.			
				1. Permanent erosion and sedimentation control shall be provided per the clearing and grading development standards. Disturbed areas of the site that are not covered by			
				permanent improvements such as buildings, parking lots, and decks shall be mulched			
				or vegetated.			
				2. The permittee must complete the required permanent erosion control within seven			
				days of completed grading unless the weather is unsuitable for transplanting. In that			
				case, the permittee must maintain temporary erosion control until permanent			
				restoration can be completed. The period between work completion and final planting			
				shall not exceed six months without written authorization from the Director.			

Table 13 - Utilities Code Chapter 24.06 Storm and Surface Water Utility Code

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
24.06.040.B – B Definitions	"Best management practices (BMP)" means those physical, structural and/or managerial practices that, when used individually or in combination, prevent or reduce pollution of water.	Amended existing code/ Developed new code	Amended definition of Best Management Practice and developed new definition for a bioretention consistent with definitions in the Permit/Manual.	"Best Mmanagement Ppractices (BMP)" means those physical, structural and/or managerial practices that, when used individually or in combination, prevent or reduce pollution of water the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by Ecology that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to waters of Washington State. "Bioretention" means engineered facilities that treat stormwater by passing it through a specified soil profile, and either retain or detain the treated stormwater for flow attenuation. Refer to the SWMMWW, Chapter 7 of Volume V for Bioretention BMP types and design specifications.			
24.06.040.H – H Definitions	N/A	Develop new code	Developed new definition for a hard surface consistent with definition in the Permit and Manual.	"Hard Surface" means an impervious surface, a permeable pavement, or a vegetated roof.	✓		√
24.06.040.0 – O Definitions	N/A	Develop new code	Developed new definition for on-site stormwater management BMPs that clarifies that it is a term that is synonymous with Low Impact Development BMPs used elsewhere in the code.	"On-site Stormwater Management BMPs" is a synonym for Low Impact Development BMPs.			√
24.06.040.S – S Definitions	N/A	Develop new code	Developed new definition for the Stormwater Management Manual and identified which version Bellevue refers to.	"SWMMWW" means the Washington State Department of Ecology 2012 Stormwater Management Manual for Western Washington (as amended in 2014) (now or hereafter amended).			√
24.06.065 Minimum requirements for new development and redevelopment.	A. Applicability. 2. In addition to the minimum requirements of this section, property owners shall comply with all applicable provisions contained in the Stormwater Management Manual for Western Washington (2005), engineering standards, Chapter 23.76 BCC (Clearing and Grading Code), BCC Title 20, and any other applicable codes or standards.	Amended existing code	Updated existing code to require compliance with the 2012 Stormwater Management Manual, rather than the 2005 Manual.	A. Applicability. 2. In addition to the Minimum Requirements of this section, property owners shall comply with all applicable provisions contained in the Stormwater Management Manual for Western Washington (2005) SWMMWW, engineering standards, Chapter 23.76 BCC (Clearing and Grading Code), BCC Title 20, and any other applicable codes or standards.			√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
24.06.065 Minimum requirements for new development and redevelopment.	E. New Development – Thresholds. 1. New development shall comply with construction stormwater pollution prevention plan (SWPPP) requirements (MR2) as set forth in Chapter 23.76 BCC; 2. New development which creates or adds 2,000 square feet or greater of new, replaced, or new plus replaced impervious surface area, or has land disturbing activity of 7,000 square feet or greater within a 12-month period, shall comply with MRs 1 through 5 as set forth in this section and in Chapter 23.76 BCC; and 3. New development which creates or adds 5,000 square feet, or more, of new impervious surface area, or converts three-quarter acres, or more, of native vegetation to lawn or landscaped areas, or converts 2.5 acres, or more, of native vegetation to pasture, or a project that through a combination of effective impervious surfaces and converted pervious surfaces causes a 0.1 cubic feet per second increase in the 100-year flow frequency from a threshold discharge area as estimated using an approved model, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC.	Amended existing code	Amended existing code to conform with the thresholds for new development in the Stormwater Management Manual.	E. New Development – Thresholds. 1. All new development shall comply with construction stormwater pollution prevention plan (SWPPP) requirements (MR2)Minimum Requirement #2 as set forth in this section and Chapter 23.76 BCC; 2. The thresholds used to determine the applicability of the Minimum Requirements to new development are as specified in Appendix 1, Section 3.2 of the Western Washington Phase II Municipal Stormwater Permit 2. New development which creates or adds 2,000 square feet or greater of new, replaced, or new plus replaced impervious surface area, or has land disturbing activity of 7,000 square feet or greater within a 12-month period, shall comply with MRs 1 through 5 as set forth in this section and in Chapter 23.76 BCC; and 3. New development which creates or adds 5,000 square feet, or more, of new impervious surface area, or converts three quarter acres, or more, of native vegetation to lawn or landscaped areas, or converts 2.5 acres, or more, of native vegetation to pasture, or a project that through a combination of effective impervious surfaces and converted pervious surfaces causes a 0.1 cubic feet per second increase in the 100-year flow frequency from a threshold discharge area as estimated using an approved model, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC.			
24.06.065 Minimum requirements for new development and redevelopment.	F. Redevelopment – Thresholds. 1. Redevelopment shall comply with construction stormwater pollution prevention plan (SWPPP) requirements (MR2) as set forth in Chapter 23.76 BCC; 2. Redevelopment for which new, replaced, or total of new plus replaced impervious surfaces is 2,000 square feet or greater, or has land disturbing activity of 7,000 square feet or greater within a 12-month period, shall comply with MRs 1 through 5 as set forth in this section and Chapter 23.76 BCC; 3. Redevelopment which adds 5,000 square feet, or more, of new impervious surfaces, or converts three-quarter acres, or more, of native vegetation to lawn or landscaped areas, or converts 2.5 acres, or more, of native vegetation to pasture, or a project that through a combination of effective impervious surfaces and converted pervious surfaces causes a 0.1 cubic feet per second increase in the 100-year flow frequency from a threshold discharge area as estimated using an approved model within a 12-month period, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC; 4. Redevelopment for which new and replaced impervious surfaces total 5,000 square feet, or more, and the valuation of proposed improvements, including interior improvements, exceeds 50 percent of the assessed value of the existing site improvements within a 12-month period, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC; 5. Underground utility projects that replace the ground surface with in-kind material or materials with similar runoff characteristics are only subject to MR2, construction stormwater pollution prevention plan (SWPPP) as set forth in Chapter 23.76 BCC; 6. For road redevelopment projects where new impervious surfaces within the project limits (as defined by the length of the project and the width of the right of way plus any permanent easements associated with the project), runoff from the replaced and new impervious surfaces within a 12-month period shall comply with MRs 1 through 9 as set	Amended existing code	Amended existing code to conform with the thresholds for redevelopment in the Stormwater Management Manual.	F. Redevelopment – Thresholds. 1. All redevelopment shall comply with Minimum Requirement #2 as set forth in this section and Chapter 23.76 BCC; 2. The thresholds and additional requirements used to determine the applicability of the Minimum Requirements to redevelopment are as specified in Appendix 1, Sections 3.3 and 3.4 of the Western Washington Phase II Municipal Stormwater Permit. 1. Redevelopment shall comply with construction stormwater pollution prevention plan (SWPPP) requirements (MR2) as set forth in Chapter 23.76 BCC; 2. Redevelopment for which new, replaced, or total of new plus replaced impervious surfaces is 2,000 square feet or greater, or has land disturbing activity of 7,000 square feet or greater within a 12-month period, shall comply with MRs 1 through 5 as set forth in this section and Chapter 23.76 BCC; 3. Redevelopment which adds 5,000 square feet, or more, of new impervious surfaces, or converts three quarter acres, or more, of native vegetation to lawn or landscaped areas, or converts 2.5 acres, or more, of native vegetation to pasture, or a project that through a combination of effective impervious surfaces and converted pervious surfaces causes a 0.1 cubic feet per second increase in the 100 year flow frequency from a threshold discharge area as estimated using an approved model within a 12-month period, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC; 4. Redevelopment for which new and replaced impervious surfaces total 5,000 square feet, or more, and the valuation of proposed improvements, including interior improvements, exceeds 50 percent of the assessed value of the existing site improvements within a 12-month period, shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC; 5. Underground utility projects that replace the ground surface with in kind material or materials with similar runoff characteristics are only subject to MR2, construction stormwater pollution prevention plan (SWPPP) as set forth in Chap			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
	section and Chapter 23.76 BCC; 8. The following road maintenance practices are considered to be redevelopment and thus subject to the thresholds described herein: a. Removal and replacement of a paved surface to base course or lower; b. Repairing the roadway base course; c. Extending the pavement edge without increasing the road prism; d. Paving graveled shoulders; e. Resurfacing by upgrading from dirt to gravel, asphalt or concrete; f. Resurfacing by upgrading from gravel to asphalt or concrete; and g. Resurfacing by upgrading from a bituminous surface treatment ("chip seal") to asphalt or concrete; and 9. For road redevelopment projects where the pavement edge is extended without increasing the size of the road prism, or where gravel shoulders are paved, the new pavement shall be considered new impervious surfaces.			and new impervious surfaces within a 12-month period shall comply with MRs 1 through 9 as set forth in this section and Chapter 23.76 BCC; 7. For road redevelopment projects where a paved surface is removed and replaced to base course or lower, or for repair of the base course, and where impervious surfaces are not expanded, the project shall comply with MRs 1 through 5 as set forth in this section and Chapter 23.76 BCC; 8. The following road maintenance practices are considered to be redevelopment and thus subject to the thresholds described herein: a. Removal and replacement of a paved surface to base course or lower; b. Repairing the roadway base course; c. Extending the pavement edge without increasing the road prism; d. Paving graveled shoulders; e. Resurfacing by upgrading from dirt to gravel, asphalt or concrete; f. Resurfacing by upgrading from gravel to asphalt or concrete; and g. Resurfacing by upgrading from a bituminous surface treatment ("chip seal") to asphalt or concrete; and 9. For road redevelopment projects where the pavement edge is extended without increasing the size of the road prism, or where gravel shoulders are paved, the new pavement shall be considered new impervious surfaces.			
24.06.065 Minimum requirements for new development and redevelopment.	G. Minimum Requirements. The following contains the minimum requirements for stormwater management at development and redevelopment sites in accordance with the city's Western Washington Phase II Municipal Stormwater Permit, including Appendix 1, Minimum Technical Requirements, the Stormwater Management Manual for Western Washington (2005) and supplemented by engineering standards where applicable: 5. On-Site Stormwater Management (MR5). On-site stormwater management BMPs to infiltrate, disperse, and retain stormwater runoff on site are required where feasible, without causing flooding or erosion impacts. Roof downspout control BMPs, functionally equivalent to those described in Chapter 3 of Volume III of the Stormwater Management Manual for Western Washington (2005) and dispersion and soil quality BMPs, functionally equivalent to those in Chapter 5 of Volume V of the Stormwater Management Manual for Western Washington (2005), shall be required to reduce the hydrologic disruption of developed sites;	Amended existing code	Amended existing code to conform with the minimum requirements in the Stormwater Management Manual.	G. Minimum Requirements. The Minimum Requirements for stormwater management at new development and redevelopment sites are as specified in Appendix 1, Section 4 of the Western Washington Phase II Municipal Stormwater Permit, the SWMMWW, and supplemented by engineering standards where applicable. The following requirements also supplement the Minimum Requirements: 1. Construction Stormwater Pollution Prevention Plan (SWPPP) (MR2). The regulations associated with this minimum regulation are contained in the clearing and grading code, located at Chapter 23.76 BCC; 2. Flow Control (MR7). Flow control is not required for properties within the Meydenbauer Drainage Basin to the extent provided for in Ordinance No. 3372.			√

Table 14 - Environmental Best Management Practices & Design Standards

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
Chapter 1 - Construction Site Management	Post-Construction Maintaining preserved and establishing new vegetation is the primary focus following construction.	No changes/ action taken	No revisions proposed; existing code language prioritizes the preservation of vegetation during/post construction.	N/A		√	
Chapter 2 - Stormwater Pollution Prevention Plan (SWPPP) for Park Operations	2.4 Best Management Practices Perform Routine Maintenance	No changes/ action taken	No revisions proposed; existing code language specifies maintenance practices for BMPs.	N/A			√
Chapter 8 Streetscape Management Streetscape Design Category 1 - Central Business District (CBD)	Planting pits shall be a minimum of 5' x 5' or 4' x 6' and include a tree grate. Shrub or ground cover plantings should be incorporated where feasible and have a mature height of 30" above the roadway or less where visibility concerns are identified (see "site distance" guidelines). Flowering annual or perennial plants may be incorporated in high visibility areas. Trees and landscaping should include an automated irrigation system (see irrigation design standards).	Amended Chapter 8	Entire chapter was re- written to include natural drainage practices, updated tree planting procedures	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional vegetation guidance.		✓	√
Chapter 8 Streetscape Management Streetscape Design Category 2 - Retail & Commercial Centers	Trees and landscaping should be planted in the middle of a 4' minimum planting strip. Planting space should be a minimum of 4' x 6' x 4' deep, or 5' x 5' x 4' deep and not have a tree grate. Shrub or ground cover plantings should be incorporated where feasible and have a mature height of 30" or less where visibility concerns are identified (See "site distance" guidelines). Flowering annual or perennial plants may be incorporated in high visibility areas. Trees and landscaping should include an automated irrigation system (see irrigation design standards).	Amended Chapter 8	Entire chapter was rewritten to include natural drainage practices, updated tree planting procedures.	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional vegetation guidance.		✓	√
Chapter 8 Streetscape Management Streetscape Design Category 3 - Buffer/Transition Areas	The minimum planting strip width is 5 feet and linearly continuous, wider is preferred, 8 feet is ideal. The planting strip shall be located between the curb and the sidewalk.	Amended Chapter i	Entire chapter was re- written to include natural drainage practices, updated tree planting procedures.	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional guidance.		√	√
Chapter 8 Streetscape Management Streetscape Design Category 4 - Boulevards	Large trees are to be used for boulevard planting. The street shall be characterized by the use of median and planting strips. A greater variety of tree forms and sizes and other vegetation.	Amended Chapter 8	Entire chapter was re- written to include natural drainage practices, updated tree planting procedures.	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional guidance		✓	√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Chapter 8 Streetscape Management Streetscape Design Category 5 - Natural	These streets are primarily vegetated by native plants that retain the natural character associated with the Puget Sound's native landscape. This concept provides a smooth transition from suburban to rural land uses and retains native vegetation in a system of connected wildlife corridors. Native plants should be used in irregular spacing and clumped into groups of similar species. Permanent irrigation systems are not generally necessary.	Amended Chapter 8	Entire chapter was re- written to include natural drainage practices, updated tree planting procedures.	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional guidance		✓	
Chapter 8 Streetscape Management 8.4 Best Management Practices	2) Native Roadside Vegetation: Streets that are primarily vegetated by native plants lend a unique character to Bellevue. The vegetation in these areas is generally naturally occurring and does not follow a predetermined planting plan. Much of the vegetation in these areas consist of native species, but there is a high likelihood for non-native plant species as well.	Amended Chapter 8	Entire chapter was re- written to include natural drainage practices, updated tree planting procedures	Chapter focuses on vegetation maintenance, tree selection, and the City's street tree program (including replacement). References out to specific code provisions for additional guidance.		√	

Table 15 - Clearing and Grading Development Standards

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
CG2-07 Exemptions	The clearing and grading code provides exemptions from permit requirements for certain types of activities or situations. An exemption from a clearing and grading permit does not exempt the person doing the work from meeting all applicable City codes. Exemptions to the requirements for a clearing and grading permit apply to the following activities: Routine drainage maintenance of existing, constructed stormwater drainage facilities located outside of a critical area or critical area buffer, including, but not limited to, detention/retention ponds, wetponds, sediment ponds, constructed drainage swales, water quality treatment facilities such as filtration systems, and regional storm facilities that are necessary to preserve the water quality treatment and flow control functions of the facility. This exemption does not apply to any expansion and/or modification to already excavated and constructed stormwater drainage facilities.	No changes/ action taken	No revisions proposed; existing code language provides exemptions for maintenance of drainage facilities.	N/A			
CG5-02 Preserving Natural Vegetation	Preserve existing vegetation on sites in areas where no construction activity is planned or will occur at a later date. BMPs C101, C102, C103, and C104 provide methods of preserving and protecting vegetation that will provide erosion and sediment control during construction. Areas where vegetation is to be preserved must be shown on the ESC plan.	No changes/ action taken	No revisions proposed; existing code language requires preservation of existing vegetation in areas where construction is not planned.	N/A		✓	

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
CG5-03 Clearing and Grading Around Trees to be Preserved	The City of Bellevue Land Use codes require that certain trees be retained as a condition of approval on many development projects. Trees are required to be preserved for several reasons, including maintaining the urban forest, reducing stormwater runoff and erosion, providing habitat for wildlife, and for aesthetic reasons. Trees can be impacted during construction and often the damage is not seen for several months or years after construction. Proper tree protection can benefit not only the tree by reducing stress during construction, but also the developer and property owner by reducing long term costs associated with future maintenance. BMP T101 in Appendix A3 identifies management practices to employ during construction to assure successful tree protection.	Amended existing standards	Added section on tree preservation plan to be consistent with Section 23.76.060.E of the clearing and grading code.	The City of Bellevue Land Use codes require that certain trees be retained as a condition of approval on many development projects. Trees are required to be preserved for several reasons, including maintaining the urban forest, reducing stormwater runoff and erosion, providing habitat for wildlife, and for aesthetic reasons. Trees can be impacted during construction and often the damage is not seen for several months or years after construction. Proper tree protection can benefit not only the tree by reducing stress during construction, but also the developer and property owner by reducing long term costs associated with future maintenance. The clearing and grading code requires that a tree preservation plan be incorporated into the clearing and grading drawings. The tree preservation plan must be prepared by a certified arborist or a registered landscape architect, and must define spatial limits for tree protection and include detailed drawings of tree protection measures and all required mitigation plantings. BMP T101 in Appendix A3 identifies management practices to employ during construction to assure successful tree protection.			
CG5-04 Protection of Soils for On-Site Stormwater Management	On-site stormwater management can include several stormwater BMPs that use the native soils for infiltration, dispersion, and retention of stormwater. Such BMPs include bioretention, pervious pavement, and amended soils. These BMPs are designed using, among other variables, the measured infiltration capacity of site soils. Soil infiltration capacity can be adversely affected during construction from compaction of the soil and clogging from sediment; therefore, care must be taken to protect native soils in areas where on-site stormwater BMPs are to be constructed. These areas must be shown on the ESC plan, and appropriate erosion and sediment control methods must be included in the CSWPPP. BMPs C101, C102, C103, C104 and T101 may be appropriate for providing erosion and sediment control for on-site soils. Completed onsite stormwater facilities must also be protected until the site is stabilized.	No changes/ action taken	No revisions proposed; existing code language includes provisions for protecting on-site soils for stormwater management.	N/A			✓

Table 16 - Transportation Design Standards
Transportation Design Manual

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
2. Public Streets	[]	Amended	Amended existing code to	[]			
External to	B. Provision of a four-foot planter strip with landscaping or drainage swale between	existing code	allow wider planter strips	B. Landscaping planter or drainage swale between the curb and sidewalk is required.			•
Subdivisions	the curb and the sidewalk is preferred. Where site conditions preclude provision of a		and drainage swales s.	The planter strip width shall be maximized based on site conditions. The minimum			
	full four-foot planter strip, a narrower planter strip is preferable to none at all. The			planter strip width shall be four feet. The downtown and Bel-Red subareas may have			
	requirement to provide a planter strip and landscaping between the curb and the			greater minimum requirements.			1
	sidewalk (outside Downtown) will be determined by the review engineer, based upon			Provision of a four-foot planter strip with landscaping or drainage swale between the			
	site conditions. Landscaping design must conform to Water Utility Code (BCC 24.02)			curb and the sidewalk is preferred. Where site conditions preclude provision of a full			
	requirements for water conservation. Landscaping requirements for Downtown are			four-foot planter strip, a narrower planter strip is preferable to none at all. The			1
	specified by Land Use Code 20.25A.060.			requirement to provide a planter strip and landscaping between the curb and the			

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
				sidewalk (outside Downtown) will be determined by the review engineer, based upon site conditions. Landscaping design must conform to Water Utility Code (BCC 24.02) requirements for water conservation. Landscaping requirements for Downtown are specified by Land Use Code 20.25A.060. Contact the Review Engineer for projects located within the downtown or Bel-Red for specific planter width and landscaping requirements. Spray irrigation may be required within all landscaped right of way and public access easements. Irrigation shall be fed from a private-metered water source, unless the Review Engineer approves a connection to a city-owned meter. Planting types, including street trees and ground cover, to be determined by the Review Engineer (see SE-120-1 for soil profile and root barrier requirements).			
3. Public Streets Internal to Subdivisions	[] D. Provision of a four-foot planter strip with landscaping or drainage swale between the curb and the sidewalk is preferred. Where site conditions preclude provision of a full four-foot planter strip, a narrower planter strip is preferable to none at all.	Amended existing code	Amended existing code to allow wider planter strips and drainage swales	See response to line 2 above. This section combined with line 2 "Public Streets" External to Subdivisions to create one section titled "Public Streets."			√
4. Private Roads	C Where a private road is widened to allow parking, such parking areas may be constructed with a pervious surface to reduce water runoff.	No changes/ action taken	No revisions proposed; existing code allow private roads to be paved with pervious surfaces.	N/A	√		
14. Sidewalks and Nonmotorized Facilities	[] B. Pedestrian Facility Construction [] (3) Paved path construction: a. Acceptable surface materials are asphalt and concrete. (4) Concrete sidewalk construction: a. All sidewalks shall be constructed with five-inch-thick Class 3000 concrete with a non-slip broom finish, except Downtown. For Downtown sidewalk construction standards, see also Land Use Code 20.25A.060. Downtown projects are also subject to special requirements through the design review process. b. At driveways, the concrete shall be six inches thick. c. Specialty finishes may be allowed with the approval of the review engineer when the proposed material will provide a non-slip surface when wet and the adjacent property owner agrees to maintain, repair, and replace the specialty material at her/his own expense, even when the maintenance is made necessary because of City work.	No changes/ action taken	Permeable pavements are allowed. Design Manual will undergo major revision in 2017 and permeable pavement will be specifically addressed.	[] B. Pedestrian Facility Construction [] (3) Paved path construction: a. Acceptable surface materials are asphalt and concrete. b. Permeable pavement may be used where feasible and effective. (4) Concrete sidewalk construction: a. All sidewalks shall be constructed with five inch thick Class 3000 concrete with a non-slip broom finish, except Downtown. For Downtown sidewalk construction standards, see also Land Use Code 20.25A.060. Downtown projects are also subject to special requirements through the design review process. b. At driveways, the concrete shall be six inches thick. c. Specialty finishes may be allowed with the approval of the review engineer when the proposed material will provide a non-slip surface when wet and the adjacent property owner agrees to maintain, repair, and replace the specialty material at her/his own expense, even when the maintenance is made necessary because of City work. d. Permeable pavement may be used where feasible and effective. Sidewalks and Nonmotorized Facilities was reorganized and the sections listed in lines 14 were combined.	✓		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
14. Sidewalks and Nonmotorized Facilities	C. Bicycle Facility Construction (1) Separated bicycle path – See requirements for paved path construction. Acceptable surface materials are asphalt and concrete. (2) Bicycle lane a. Acceptable surface materials are asphalt and concrete. b. A bicycle lane on a public roadway shall be a minimum of five feet wide when curb and gutter is in place. The distance shall be measured from the face of curb to the center of the fogline that designates the bicycle lane. A cement concrete traffic curb and gutter is required. See Design Manual Drawing TE- 10. c. A bicycle lane on a public roadway shall be a minimum of four feet wide when no curb and gutter is in place. The width shall be measured from the edge of pavement to the center of the bicycle lane marking. A minimum two-foot wide graded shoulder is required adjacent to the paved surface. (3) Shared roadway a. Acceptable surface materials are asphalt and concrete. b. The curb lane of a shared roadway shall be a minimum of 14 feet wide for flat or downhill sections and 15 feet wide for uphill sections. The distance shall be measured from the face of curb to the center of the lane marking.	No changes/ action taken	Permeable pavements are allowed. Design Manual will undergo major revision in 2017 and permeable pavement will be specifically addressed.	Sidewalks and Nonmotorized Facilities was reorganized and the sections listed in lines 14 were combined C. Bicycle Facility Construction (1) Separated bicycle path — See requirements for paved path construction. Acceptable surface materials are asphalt and concrete. (2) Bicycle lane a. Acceptable surface materials are asphalt and concrete. b. Permeable pavement may be used where feasible and effective. cb. A bicycle lane on a public roadway shall be a minimum of five feet wide when curb and gutter is in place. The distance shall be measured from the face of curb to the center of the fogline bicycle lane marking that designates the bicycle lane. A cement concrete traffic curb and gutter is required. See Design Manual Drawing TE-10. dc. A bicycle lane on a public roadway shall be a minimum of four feet wide when no curb and gutter is in place. The width shall be measured from the edge of pavement to the center of the bicycle lane marking. A minimum two-foot wide graded shoulder is required adjacent to the paved surface. (3) Shared roadway a. Acceptable surface materials are asphalt and concrete. b. The curb lane of a shared roadway shall be a minimum of 14 feet wide for flat or downhill sections and 15 feet wide for uphill sections. The distance shall be measured	•		

Table 17- Transportation Design Standards DEV Drawings

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
RC-130-1 Turnaround	Notes:	Amended	Amended Transportation	Notes:		\checkmark	
Facilities	1. Landscaped island with vertical curb at center of circular turnaround is required.	existing code	Development Code to	1. Landscaped island with vertical curb at center of circular turnaround is required.		,	
(Revised 12/16)			include to allow for	Bioretention and stormwater management facilities may be utilized in landscaped			
			stormwater management	islands. Plantings within landscaped islands should utilize native species, or species			
			practices within frontage	with a proven ability to survive in an urban environment, to the maximum extent			
			improvements. BCC	<u>feasible.</u>			
			14.60.170.C.				
DEV-4 Public Street	Notes:	No changes/	No revisions proposed;	N/A			
Widths Within	1. All street widths shown are minimums. Required street widths will be specified by	action taken	street widths of 20', 24', and				
Subdivisions	the engineer.		28' align with the LID				
	2. Where parking is not allowed, "no parking anytime" signs are required.		principle of reducing				
DELETED 12/16			impervious surface.				

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
RC-100-1 Typical Public Street (Revised 12/16)	Notes: 1. Landscaped planter strip requirements (width, landscape type, maintenance, etc.) will be specified by the engineer. See std. dwg. ROW-9 for asphalt detail adjacent to planter strip.	No changes/ action taken	No revisions proposed; planter requirements are specified by the engineer and in the development standards.	N/A			
RC-230-1 Commercial Project Site-Street Frontage Improvements (Revised 12/16)	Notes: 5. Landscaped planter strip requirements (width, landscape type, maintenance, etc.) will be specified by the engineer. See std. dwg. RC—240-1 for asphalt detail adjacent to planter strip. (Note: drawing revised 12/16 including Note 5).	No changes/ action taken	Amended Transportation Development Code to include to allow for stormwater management practices within frontage improvements. BCC 14.60.110.B	N/A		✓	

Table 18 - Transportation Design Standards Appendix B Bel-Red Area Standards

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
3 Conceptual Plans and Development Standards	120th Avenue NE - Stage 2 (CIP No. PW-R-164) Continue street tree theme established in the 120th Avenue NE Stage 1 project. Provide a transition in shrub/groundcover treatments to distinguish Stages 2, 3 and 4 from Stage 1.	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District	N/A		✓	√
3 Conceptual Plans and Development Standards	120th Avenue NE - Stage 3 (CIP No. PW-R-168) Continue street tree theme established in the 120th Avenue NE Stage 1 project. Provide a transition in shrub/groundcover treatments to distinguish Stages 2, 3 and 4 from Stage 1.	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District	N/A		√	√
3 Conceptual Plans and Development Standards	NE 4th Street (CIP No. PW-R-160) Locate plant strips between sidewalks and vehicular/bicycle lanes rather than at back-of-sidewalk.	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District	N/A		√	√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
3 Conceptual Plans and Development Standards	NE 6th Street Extension (CIP No. XXX) Locate plant strips between sidewalks and vehicular/bicycle lanes rather than at back- of-sidewalk. Continue street tree theme established in the 120th Avenue NE Stage 1 project. Provide distinctive shrub/groundcover treatments to distinguish Stages 3 and 4 from Stage 1.	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District	N/A		✓	✓
3 Conceptual Plans and Development Standards	124th Avenue NE (CIP No. PR-R-169) Provide distinctive built or vegetative gateways into the riparian corridor east of 124th Avenue NE. Establish and maintain a consistent street tree theme along the length of 124th Avenue NE. Provide transition in the shrub and groundcover plantings south of BelRed Road.	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District	N/A		✓	✓
3 Conceptual Plans and Development Standards	124th Avenue Corridor Improvements Natural Drainage Systems	No changes/ action taken	No revisions proposed; existing corridor improvements include provisions for natural drainage.	N/A		✓	✓
3 Conceptual Plans and Development Standards	15th/16th Corridor Cross Section Recommendations 116th Ave NE - NE 20th Street Multi-Purpose Pathway Landscape strip	No changes/ action taken	Projects listed are either in final design stage, under construction, or completed. LID practices are included in the Bel-Red Overlay District.	N/A		√	✓
3 Conceptual Plans and Development Standards 3.4 Local Streets	Figure 3.4.9 Landscape & Furnishings Trees spaced at 30' on-center in planting strip. 4'0" planting strip.	No changes/ action taken	Tree planting and maintenance requirements are found in the City's Environmental Best Management Practices. Landscaping requirements for Bel-Red are codified at LUC 20.25D.110.B, which controls over the guidelines. The Bel-Red Overlay District was rezoned and new development regulations implemented in 2009, which included low impact development practices.	N/A		√	✓
3 Conceptual Plans and Development Standards 3.4 Retail Streets	Because the street trees on Retail Streets will be grated instead of located in large open planters, provisions will need to be made for adequate root and soil volume. A root space protection zone is proposed from the face of adjacent development to the edge of the vehicular travel lane, in which a structural matrix such as Silva Cell will be used to support pavement over a high-quality growing medium.	No changes/ action taken.	Tree planting and maintenance requirements are found in this City's Environmental Best Management Practices. Landscaping requirements for Bel-Red are codified at LUC 20.25D.110.B, which controls over the guidelines.			✓	√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
			The Bel-Red Overlay District was rezoned and new development regulations implemented in 2009, which included low impact development practices.				
3 Conceptual Plans and Development Standards 3.4 Retail Streets	Figure 3.5.10 Landscape & Furnishings Trees spaced at 30' on center in planting strip. 5'x10' planters with tree grates or rain gardens where feasible.	No changes/Actio n taken.	Tree planting and maintenance requirements are found in the City's Environmental Best Management Practices. Landscaping requirements for Bel-Red are codified at LUC 20.25D.110.B, which controls over the guidelines. The Bel-Red Overlay District was rezoned and new development regulations implemented in 2009, which included low impact development practices was rezoned and new development regulations implemented in 2009, which included low impact development regulations implemented in 2009, which included low impact development practices.	N/A			
3 Conceptual Plans and Development Standards 3.6 Green Streets	The emphasis of Green Street typology is to put pedestrians and bicycles on equal or greater priority with minor, local automotive traffic, and to employ natural systems to assist with storm water management. The street is punctuated by asymmetrically placed rain gardens in line with the parking bays. Tress are clumped into irregular groves within rain gardens, reinforcing a more natural extension of landscape from riparian areas into the neighborhood street grid. Stormwater is conveyed to the rain garden planters along a crease in the pavement which feeds small cascades into the basins. The rain gardens will remove pollutants and suspended solids before returning water to the aquifer. In heavy rainfall overflow structures convey water to the storm sewer system to avoid flooding.	No changes/ action taken	No revisions proposed; existing code language provides standards for green streets which include rain gardens.	N/A		√	✓
5 Public Art Considerations 5.2 Public Art Detailed Actions and Recommendations	Landscape Inventory and protect all significant trees. Establish landscape standards for the arts district which emphasize native plants and casual character.	No changes/ action taken	No revisions proposed; existing code language requires inventory and protection of all significant trees.	N/A		√	✓

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
7 BelRed Corridor Standards	Bioretention Planters	No changes/ action taken	No revisions proposed; existing code language includes standards for bioretention planters within the right-of-way.	N/A		√	✓

Table 18 - Critical Areas Handbook

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious	Loss of native vegetation	Stormwater runoff
Introduction	A native restoration project is designed to replicate nature. This means that the types of plants that are selected and the way they are placed and spaced is typically different than an ordinary landscape project. Native landscapes have a more diverse, naturalistic spacing and grouping of vegetation. These natural landscapes are very different from the systematic design of a formal garden.	No changes/ action taken	No revisions proposed; existing code language provides provisions for using native vegetation within restoration projects.	N/A		✓	
	Plants selected for a native project are ones that grew in the Puget Sound area before it was settled; they are not imported from other areas like traditional nursery plants (usually called ornamentals). They must also be placed in conditions that meet their physiological needs. For instance, certain native plants like wet soil, so you might find them in a wetland, but not at the top of a slope. You will find more details on plants and their needs throughout this manual. A list of native plants appropriate for small-scale restoration, as well as a list of nurseries where they are available for sale, can be found in the References (see Appendix D) at the end of this handbook.						
Existing Vegetation	Existing vegetation is important for both initial plant installation considerations and ongoing maintenance. Plants are easier to install and maintain on a bare site than in an existing tangle of 8-foot-tall blackberry vines.	No changes/ action taken	No revisions proposed; existing code language provides provisions for using native vegetation within restoration projects.	N/A		✓	
Plant Availability	All of the native plants listed in the Master Plant List in Appendix C at the end of this Handbook should be commercially available. You will find a list of nurseries that specialize in native plants in the References section (Appendix D) as well.	No changes/ action taken	No revisions proposed; existing code language provides a list of native plant species to be used within restoration projects.	N/A		✓	

Table 19 - Storm and Surface Water Engineering Standards

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
D2-06 Stormwater Site Planning and Submittals	Based upon the analysis of existing site conditions, locate the buildings, roads, parking lots, utilities, and landscaping features for the proposed development. Consider the following points when laying out the site: 1) Fit development to the terrain to minimize land disturbance; Confine construction activities to the least area necessary, and away from critical areas; 2) Preserve areas with natural vegetation (especially forested areas) as much as possible; 3) On sites with a mix of soil types, locate impervious areas over less permeable soil (e.g., till), and try to restrict development over more porous soils (e.g., outwash); 4) Cluster buildings together; 5) Minimize impervious areas; and 6) Maintain and utilize the natural drainage patterns.	Amended existing standard	Amended existing language to reorganize and move site design considerations to Chapter D1 and to include additional site planning considerations.	D1-02.2 Site Design Considerations [] Before designing the site and stormwater infrastructure, consider the following: • Stormwater: O Using LID principles, manage stormwater runoff (quantity and quality) as close to the point of origin as possible. Minimize the use of conventional stormwater collection (catch basins) and piped conveyance infrastructure. O Use LID BMPs (e.g., dispersion, infiltration, and reuse) where feasible. Landscaping Maintain and use natural drainage patterns. Preserve natural features and resources, including trees per the Land Use Code BCC 20.20.900 Create a multifunctional landscape using hydrology as a framework for landscape design. Confine and phase construction activities to minimize disturbed areas, and minimize impacts to environmentally critical areas and their associated buffers. Plant new trees in proximity to ground level impervious surfaces for on-site stormwater management and/or flow control credit. Minimize or prevent compaction of and protect soils. Amend landscape soils to promote infiltration. Impervious and Pervious Surfaces: For sites with varied soil types, locate impervious areas over less permeable soil (e.g., till). Minimize development over more porous soils. Use porous soils by locating bioretention, permeable pavement, or other approved infiltration methods over them. Cluster buildings together. Minimize impervious surfaces (e.g., buildings, sidewalks). Minimize pollution-generation hard surface (PGHS) (e.g., areas subject to vehicular use such as driveways and parking strips). Minimize pollution-generating pervious surfaces (PGPS) (e.g., fertilized lawns, flower beds, etc.). Consider landscaping with native vegetation.			
D2-07.2 Storm Drainage General Plan Notes	(9) Vegetation/landscaping in the detention pond, bioretention facility, vegetated roof and/or drainage swale(s) are an integral part of the runoff treatment system for the project. Such drainage facilities will not be accepted until plantings are established.	Amended existing standard	Amended existing language to reorganize and move general plan notes to Appendix 4 and move renumber note (9) to note (6) under Storm Drainage.	Storm Drainage Notes: 6) Vegetation/landscaping in the detention pond, bioretention facility, vegetated roof and/or drainage swale(s) are an integral part of the runoff treatment system for the project. Such drainage facilities will not be accepted until plantings are established.		✓	
D3-04 Minimum Impervious Areas	For single family residential plat developments, use Table 2.2 in Volume III of the DOE Manual for minimum values. A higher percent impervious area shall be required if the proposed project land use impervious lot coverage allows a greater impervious area coverage. Stormwater system designs shall take into account maximum future build-out of the proposed development, as allowed by land use code. For commercial and multi-family residential developments, use actual project values.	Deleted tandard	Deleted existing standard as this is covered by the adoption of the 2014 Ecology Stormwater Manual.	N/A	✓		

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Chapter D4 - Hydraulic	Roof and footing drains, yard drains, underdrains, ditches, swales, stormwater	No changes/	No revisions proposed;	N/A			
Analysis & Design D4-01 General	conveyance systems, etc. shall be installed to prevent damage or nuisance to adjacent properties and the public right-of-way due to the proposed development.	action taken	existing language addresses installation of stormwater systems to minimize impacts to the right-of-way and adjacent properties.				✓
Chapter D4 - Hydraulic Analysis & Design D4-04 Conveyance Systems	Use the criteria set forth in Section 24.06.070(B)(4) of the Storm and Surface Water Utility Code and the information provided herein to plan, design and construct stormwater conveyance systems.	Amended existing standard	Amended existing standard to reorganize – section has been moved to D4-05.	D4-05.1 General Use the criteria set forth in Section 24.06.070(B)(4) of the Storm and Surface Water Utility Code and the information provided herein to plan, design and construct stormwater conveyance systems.			✓
Chapter D4 - Hydraulic Analysis & Design D4-06.5 Ponds	Stormwater detention ponds may be used as interim sedimentation facilities if cleaned and restored to approved plan conditions following completion of all on-site construction.	Amended existing standard	Amended existing standard to reorganize – section has been moved to D5-04.4.	D5-04.4.5 Ponds Stormwater detention ponds may be used as interim sedimentation facilities if cleaned and restored to approved plan conditions following completion of all on-site construction.			√
Chapter D6 - On-Site Stormwater Management D6-01 General	Natural Drainage Practices (NDPs) are included here as a sub-set of on-site stormwater management BMPs, and include bioretention, pervious pavement, rain recycling, and vegetated roofs. These NDPs are encouraged as an integral part of site designs.	Amended existing code	Amended existing code to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D1-04.2.	Natural drainage patterns shall be maintained, and discharges from the project site shall occur at the natural location, to the maximum extent practicable. The manner by which runoff is discharged from the project site must not cause a significant adverse impact to downstream receiving waters and downgradient properties. All outfalls require energy dissipation. Creating new drainage patterns results in more site disturbance and more potential for erosion and sedimentation during and after construction. Creating new discharge points can create significant stream channel erosion problems as the receiving water body typically must adjust to the new flows. Diversions can cause greater impacts than would otherwise occur by discharging runoff at the natural location.		✓	
Chapter D6 - On-Site Stormwater Management D6-01.1 Using On-Site Stormwater Management to meet Storm and Surface Water Utility Code Requirements	Table 6.1 Required Tier 1 On-site Stormwater Management BMPs; Table 6.2A Required Tier 2 On-site Stormwater Management BMPs, Table 6.2B Natural Drainage Practices (NDPs) Allowed as Alternatives to or in Addition to Required Tier 2 BMPs; Table 6.3 Required Tier 3 BMPs	Amended existing standard	Amended existing standard to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D1-04.2.	D1-04.2(e) Minimum Requirement #5 - On-site Stormwater Management Projects shall employ On-site Stormwater Management BMPs in accordance with the following projects thresholds, standards, and lists to infiltrate, disperse, and retain stormwater runoff onsite to the extent feasible without causing flooding or erosion impacts.			✓
Chapter D6 - On-Site Stormwater Management D6-01.1 Using On-Site Stormwater Management to meet Storm and Surface Water Utility Code Requirements	B. Runoff Treatment (Minimum Requirement 6) In addition, site design practices and vegetation retention be used to reduce the amount of PGIS and PGPS requiring treatment.	Amended existing standard	Amended existing standard to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D1-04.2.	D1-04.2(f) Minimum Requirement #6 - Runoff Treatment			√

Code reference	Existing policy language	Action taken to meet permit requirements	Describe revision(s) made to meet permit requirements OR if no revision(s) were made, explain why.	Amended code language	Impervious surfaces	Loss of native vegetation	Stormwater runoff
Chapter D6 - On-Site Stormwater Management D6-02.4 Step 3: Runoff Sources and BMP Selection	Table 6.5 On-site Stormwater BMP Selection Matrix	Amended existing standard	Amended existing standard to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D1-04.2.	D1-04.2(e) Minimum Requirement #5 - On-site Stormwater Management Flow Chart for Determining LID MR #5 Requirements	✓	✓	✓
Chapter D6 - On-Site Stormwater Management D6-03.1 Required On- site Stormwater Management Practices	C. Preserve Native Vegetation Apply BMP T5.20, Preserving Native Vegetation, as described in the DOE Manual, Volume V, Section 5.3.2 and comply with LUC 20.20.900, Significant Tree Retention. Partial flow credit for retaining or planting trees can be achieved in accordance with the requirements in Section D6-03.4.	Deleted standard	Deleted existing standard as this is covered by the adoption of the 2014 Ecology Stormwater Manual.	N/A		✓	
Chapter D6 - On-Site Stormwater Management D6-03.2 Natural Drainage Practices (NDPs)	A. Bioretention B. Pervious Pavement C. Rain Recycling D. Vegetated Roof E. Reverse Slope Sidewalk F. Minimal Excavation Foundation Systems	Amended existing standard	Amended existing standard to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D1-04.2.	D1-04.2(e) Minimum Requirement #5 - On-site Stormwater Management List #1 and List #2			✓
Chapter D6 - On-Site Stormwater Management D6-03.4 Flow Control Credits for On-site Stormwater Management BMPs	Flow Control Credit may be achieved by implementing the following on-site BMPs: Retaining trees Planting new trees Installing rain barrels Downspout or sheet flow dispersion Installing a vegetated roof The impervious area mitigated is calculated as the product of the Flow Control Credit and the quantity of the BMP.	Amended existing standard	Amended existing standard to reorganize and rewrite to conform with the 2014 Ecology Stormwater Manual – section has been moved to D3-03.2.	D3-03.2 On-Site Stormwater Management For projects that trigger MR's 1-9, modeling to size On-site Stormwater Management BMPs for Minimum Requirement #5, design flows are generated with an Ecology approved continuous hydrology model. When including On-site Stormwater Management BMPs on a project, credit maybe taken for flows controlled and/or treated on-site.			✓
Chapter D6 - On-Site Stormwater Management D6-04.1 Bioretention	F. Plants for Bioretention (Rain Gardens, Bioretention Swales, Downspout Planter Boxes) Native plants from the Pacific Northwest region shall be used whenever possible.	Deleted standard	Deleted existing standard as this is covered by the adoption of the 2014 Ecology Stormwater Manual.	N/A		✓	✓