

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
ENVIRONMENTAL APPEALS BOARD

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In the Matter of: )

JOINT BASE LEWIS-McCHORD )  
MUNICIPAL SEPARATE STORM )  
SEWER SYSTEM )

NPDES Permit No. WAS-026638 )  
\_\_\_\_\_

) Appeal No. NPDES 13-09

) **CERTIFICATION OF INDEX TO**  
) **ADMINISTRATIVE RECORD AND**  
) **ADMINISTRATIVE RECORD INDEX**

I, Michael Lidgard, am the Manager of the National Pollutant Discharge Elimination System ("NPDES") Permits Unit, Office of Water and Watersheds, U.S. Environmental Protection Agency Region 10 ("Region 10"). I hereby certify that to the best of my knowledge and belief, the materials identified in the attached Index to EPA Region 10 Administrative Record constitute the complete Region 10 administrative record for purposes of judicial review of the NPDES permit issued by EPA on August 22, 2013 to Joint Base Lewis-McChord for discharges from the municipal separate storm sewer system, NPDES Permit No. WAS-026638.

DATED: January 15, 2014



\_\_\_\_\_  
Michael Lidgard, Manager  
NPDES Permits Unit  
Office of Water and Watersheds  
U.S. Environmental Protection Agency Region 10  
1200 Sixth Avenue, Suite 900, OWW-130  
Seattle, WA 98101  
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CERTIFICATION AND INDEX TO  
THE ADMINISTRATIVE RECORD - 1

**U.S. Environmental Protection Agency**  
**1200 Sixth Avenue, Suite 900**  
**Seattle, Washington 98101**  
**(206) 553-1037**

**Before the Environmental Appeals Board**  
**Appeal No. NPDES 13-09**  
**JOINT BASE LEWIS-McCHORD MUNICIPAL SEPARATE STORM SEWER SYSTEM**  
**Index to EPA Region 10 Administrative Record**

EPA Record Exhibit	Date	Document Description
<b>NPDES Permit Application</b>		
1	01/17/2003	Letter from Robert Robichaud, EPA, to Michael Grenko, McChord AFB, re: Permit Application Requirements for Storm Water Discharges  Att: 1 CD
2	01/24/2003	Letter from Robert Robichaud, EPA, to Frank Crown, Fort Lewis, re: Permit Application Requirements for Storm Water Discharges  Att: 1 CD
3	03/04/2003	Memo from Michael Grenko, McChord AFB, to Misha Vakoc, EPA, re: Phase II Permit Application Requirements for Storm Water Discharge
4	03/05/2003	Fort Lewis Army Base Application for Regulated Small MS4 Permit
5	11/24/2003	Memo from Michael Grenko, McChord AFB, to Misha Vakoc, EPA, re: Stormwater Pollution Prevention Plan  Att 1: Stormwater Pollution Prevention Plan (1 CD) Att 2: Hard Copies of Figure 3-1 through 3-4 (Maps)
6	02/10/2005	Email from Frank Crown, Fort Lewis, to Misha Vakoc, EPA, re: Storm Water and Water Quality Standards
7	04/01/2005	Email from Frank Crown, Fort Lewis, to Misha Vakoc, EPA, re: Fort Lewis 2004 MS4 Annual Report  Att 1: 2004 MS4 Annual Report
8	12/07/2007	Letter from Joyce Chavez, Fort Lewis, to Misha Vakoc, EPA, re: MS4 permit for the Fort Lewis cantonment area  Att1: CD
9	06/17/2008	Letter from Michael Gearheard, EPA, to Colonel Jeffrey Stephenson, U.S. Air Force, re: Clarification of NPDES Permit Status for Stormwater Discharges from McChord AFB
<b>Pre-Public Notice Correspondence</b>		
10	04/24/2007	EPA Region 10. NPDES Permits for MS4s Owned/Operated by Federal Facilities in W WA – Meeting agenda re: Status of EPA’s MS4 permit process and EPA’s consultation obligations under ESA
11	04/30/2008	Memo from Michael Grenko, McChord AFB, to Misha Vakoc, EPA,

EPA Record Exhibit	Date	Document Description
		re: Termination of Wastewater Discharge Permit WA-002510-1, McChord AFB
12	06/10/2010	Meeting Agenda and Notes from EPA meeting with JBLM
13	08/31/2010	Letter from Paul Steuke, Jr., to Michael Lidgard, , EPA re: revised NPDES MS4 permit application related to the merger of the Army and Air Force Base to create JBLM and updated application information  Att 1: CD
14	06/02/2011	Email from Misha Vakoc, EPA to Martin Burris, JBLM, re: EPA's preliminary draft of the Joint Base Lewis McChord MS4 permit  Att 1: Preliminary Draft JBLM MS4 Permit, dated 05/2011 Att 2: Preliminary Draft Fact Sheet for JBLM MS4 Permit, dated 05/2011
15	07/19/2011	JBLM Agenda: 19 July 2011 0900 Building 2012 Lewis Main JBLM, WA
16	07/19/2011	EPA Agenda for EPA and JBLM Discussion of the May 2011 Preliminary Draft MS4 Permit #WAS026638
17	07/19/2011	Sign in Sheet, EPA-JBLM Meeting re: Preliminary Draft JBLM MS4 Permit dated May 2011
18	07/19/2011	Notes from EPA- JBLM Meeting
19	08/26/2011	Email from Martin Burris, JBLM, to Misha Vakoc, EPA, re: 19 July 2011 Meeting on Proposed NPDES MS4 (Unclassified)  Att 1: Department of Army Memorandum dated 10/07/2010, re: Sustainable Design and Development Policy Update (Environmental and Energy Performance) Att 2: DoD Memorandum dated 1/19/2010 re: DoD Implementation of Stormwater Requirements under Section 438 of the EISA Att 3: LID Training Workshop- Austin, Texas, USACOE, June 28-30, 2011 Att 4: Materials Safety Data Sheet Search Screen JBLM Att 5: Letter from City of Seattle to WDOE Re: NPDES Phase I MS4 permit LID preliminary draft permit language, dated 07/01/2011 Att 6: JBLM MS4 Permit Mark-up, EPA SUBMITTAL May 2011 WAS-026638
20	10/13/2011	Email from Martin Burris, JBLM, to Misha Vakoc, EPA, re: Comments on preliminary draft fact sheet for NPDES Permit No. WAS-026638 JBLM MS4 (Unclassified)  Att 1: Excerpted Pages from the Final JBLM Integrated Contingency

EPA Record Exhibit	Date	Document Description
		Plan Att 2: Comments on EPA submittal Fact Sheet Comments MS4 permit, 12 October 2011 Att 3: McChord Field Annual Creek Sample
21	11/18/2011	Email from Martin Burris, JBLM, to Misha Vakoc, EPA, re: FW: (Unclassified)  Att 1: JBLM-Vicinity Map as JPG Att 2: JBLM-Vicinity Map as PDF Att 3: Comments on EPA submittal Fact Sheet Comments MS4 permit, Revision 1
22	01/24/2012	Email from Misha Vakoc, EPA, to Martin Burris, et al, JBLM, re: Informal Transmittal of the Draft JBLM MS4 Permit and Fact Sheet  Att 1: Public Notice Att 2: JBLM MS4 Permit Fact Sheet, January 26, 2012 Att 3: Public Notice Draft JBLM Draft MS4 Permit (January 2012)
23	01/26/2012	Letter from Michael Lidgard, EPA, to Philip Crawford, JBLM, re: JBLM MS4 NPDES Permit NPDES Permit No.: WAS-026638  Att 1: Public Notice, as published 1/26/2012 Att 2: JBLM MS4 Permit Fact Sheet, January 26, 2012 Att 3: Public Notice Draft JBLM Draft MS4 Permit (January 2012)
24	01/26/2012	Email from Misha Vakoc, EPA, to Philip Crawford, et al, JBLM, re: Public Notice of the Draft JBLM MS4 Permit and Fact Sheet  Att 1: EPA Letter to JBLM dated 1/26/2012
25	01/30/2012	Email from Rod Perry, USACOE, Seattle District, to Misha Vakoc, EPA, re: NPDES Permit Requirements – JBLM (Unclassified)
<b>Clean Water Act Section 401 Certification Documents and Correspondence</b>		
26	05/04/2010	Agenda and Notes from EPA and WDOE Discussion, 05/04/2010 of a Preliminary Draft JBLM MS4 Permit dated 4/2010  Att 1: Preliminary Draft Joint Base Lewis McChord MS4 Permit, dated 4/22/2010 Att 2: Preliminary Draft Fact Sheet for NPDES Permit No. WAS-026638, dated 4/20/2010
27	06/30/2010	Email from Harriet Beale, WDOE, to Misha Vakoc, EPA, re: FW: Fort Lewis permit
28	09/30/2010	Email from Vince McGowan, Ecology, to Misha Vakoc, EPA, and <a href="mailto:Kenneth.Wong@ang.af.mil">Kenneth.Wong@ang.af.mil</a> , re: FW: Stormwater Issues

EPA Record Exhibit	Date	Document Description
29	05/26/2011	<p>Email from Misha Vakoc, EPA, to Kathleen Emmett, et al, WDOE, re: EPA's preliminary draft of the JBLM MS4 permit</p> <p>Att 1: May 2011 Preliminary Draft JBLM MS4 Permit Att 2: May 2011 Preliminary Draft Fact Sheet</p>
30	07/08/2011	<p>Letter from Robert Bergquist, WDOE, to Misha Vakoc, EPA, re: Revised preliminary draft MS4 permit and fact sheet</p> <p>Att 1: Comments on the JBLM Permit Att 2: Comments on the JBLM Fact Sheet Att 3: Public Education and Outreach on Stormwater Impacts</p>
31	07/26/2011	<p>Email from Misha Vakoc, EPA, to Kathleen Emmett, et al, WDOE re: Check in regarding our meeting Wednesday @ 1:30 regarding preliminary MS4 Permit for JBLM</p>
32	12/02/2011	<p>Email from Misha Vakoc, EPA, to Kathleen Emmett, et al, WDOE, re: Preliminary Draft Joint Base Lewis McChord MS4 Permit</p> <p>Att 1: Preliminary Draft JBLM MS4 Permit dated 12/01/2011 Att 2: Preliminary Draft JBLM MS4 Fact Sheet dated 12/02/2011</p>
33	12/09/2011	<p>Letter from Michael Lidgard, EPA, to Robert Bergquist, WDOE, re: Request for Preliminary Certification of NPDES Permit No. WAS-026638 JBLM MS4</p> <p>Att 1: List of Additional Topics and EPA Response to Prior Ecology Comments Regarding Preliminary Draft MS4 Permit for JBLM MS4 (Tables 1 and 2) Att 2: Preliminary Draft JBLM MS4 Permit, dated 12/08/2011 Att 3: Preliminary Draft JBLM MS4 Fact Sheet, dated 12/09/2011</p>
34	12/12/2011	<p>Email from Misha Vakoc, EPA, to Vincent McGowan, et al, WDOE, re: Transmittal of EPA's draft Joint Base Lewis -McChord MS4 Permit and request for CWA Sec. 401 certification</p> <p>Att: 1: EPA Letter to WDOE, dated 12/09/2011 Att 2: Preliminary Draft JBLM MS4 Permit dated 12/08/2011 Att 3: Preliminary Draft JBLM MS4 Fact Sheet dated 12/09/2011</p>
35	01/17/2012	<p>Letter from Robert Bergquist, WDOE, to Michael Lidgard, EPA, re: EPA Draft Permit No. WAS-026638 authorizing discharge from JBLM, Pierce County, WA</p>
36	06/07/2013	<p>Letter from Michael Lidgard, EPA, to Greg Zentner, WDOE, re: Request for Final Certification under Clean Water Act Section 401 for NPDES Permit No. WAS-026638 -JBLM MS4</p>

EPA Record Exhibit	Date	Document Description
		Att 1: Summary Table of EPA Responses to Issues Identified by Ecology, Text Revisions based on Public Comment, and Edits consistent with Ecology's Final Documents Att 2: Final Draft JBLM MS4 Permit, dated June 2013
37	08/07/2013	Letter from Deborah Cornett, WDOE, to Michael Lidgard, EPA, re: Clean Water Act 401 Certification for NPDES Permit WAS-026638  Att 1: Washington State Certification Conditions for Permit No. WAS-026638 JBLM MS4
<b>Documents Relating to Permit Provisions for the Stormwater Management Program</b>		
38	Undated	Fort Lewis Environmental Guidebook
39	03/21/1977	Memo from EPA Deputy Assistant Administrator for Water Enforcement Jeffery Miller, to Director, Enforcement Division, Region IX, re: NPDES Permits and Requirements of State Law
40	04/1978	EPA. Oil/Water Separation: State of the Art, EPA 600-2-78-0069
41	08/26/1996	EPA. Interim Permitting Policy for Water Quality-Based Effluent Limitations in Storm Water Permits. 61 Federal Register 43761
42	02/1997	EPA. Fact Sheet: Stormwater and Wetlands. Publication 97-91
43	05/02/1997	Booth, D., Center for Urban Water Resources Management, University of Washington. Rationale for a "Threshold of Concern" in Stormwater Release Rates
44	05/19/1997	Oregon Department of Environmental Quality. Final Guidance on Management Practices for the Disposal of Chlorinated Water
45	10/1997	Booth, D. and R. Jackson. Urbanization of Aquatic Systems, Degradation Thresholds, Stormwater Detention, and the Limits of Mitigation, Journal of the American Water Resources Association, Volume 22, No. 5., October 1997
46	04/1998	EPA, et al. National Response Team's Integrated Contingency Plan Guidance for EPA, U.S. Coast Guard, Minerals Management Service, Research and Special Programs Administration and Occupational Safety and Health Administration, Fact sheet EPA 550-F-98-015
47	03/1999	EPA Office of Research and Development. Stormwater Treatment at Critical Areas: The Multi-Chambered Treatment Train, EPA-600-R-99-017, March 1999
48	03/2000	Center for Watershed Protection. National Pollutant Removal Performance Database for Stormwater Treatment Practices, 2nd Edition
49	09/2000	Booth, D.B. Forest Cover, Impervious Surface Area, and the Mitigation of Urbanization Impacts in King County, Washington
50	05/2001	Washington Engineering, Inc. Corrected Final Design Report, Fort

EPA Record Exhibit	Date	Document Description
		Lewis Stormwater Improvement Outfalls 002, 003, and 007, Contract DAC A67-99-R-100, Work Order 0003, Prepared for: Fort Lewis Department of Public Works, May 2001
51	10/2001	Tikkanen, et al., East Bay Municipal Utility District, Oakland. California Guidance Manual for the Disposal of Chlorinated Water
52	2002	G. Peterka, Public Utility District of Skagit County. The ESA and Chlorinated Water Discharges, from Research and Extension Regional Water Quality Conference, 2002
53	2002	EPA. Seattle, Washington Urbanized Area Map, "Storm Water Entities as Defined by the 2000 Census"
54	01/15/2002	EPA Region 10 Agenda and Meeting Notes: Storm Water and Federal Facilities in the Puget Sound Basin; Tuesday, January 15th
55	04/11/2002	Letter from Colonel Paul Selva, McChord AFB, to Randy Smith, EPA, re: Requesting Modification of 1975 NPDES permit  Att 1: McChord AFB Storm Water Management Program
56	06/2002	Booth, D., et al. Forest Cover, Impervious Surface Area, and the Mitigation of Stormwater Impacts. In: Journal of the American Water Resources Association, v. 38:835-845 doi: 10.1111/j.1752-1688.2002.tb01000.x
57	12/2002	WDOE. Washington State Marine Water Quality, 1998 through 2000. Publication No. 02-03-056
58	02/28/2003	Homeland Security Presidential Directive 5, re: Management of Domestic Incidents
59	06/2003	EPA Office of Water. When Are Stormwater Discharges Regulated as Class V Wells? EPA 816-F-03-001
60	06/2003	Independent Science Panel. Independent Science Panel Stormwater Review of the Washington Department of Ecology Stormwater Management Manual for Western Washington, 2001.
61	06/2003	Thurston Regional Planning Council. The Relationship of Land Cover to Total and Effective Impervious Area - Building Input Files for the Hydrological Simulation Program – Fortran Model, Thurston County, Washington
62	07/01/2003 Modified 1/21/2005	EPA. NPDES General Permit and Fact Sheet for Stormwater Discharge from Construction Activities (Federal Facilities in Washington), Permit No. WAR10-000F
63	07/07/2004	EPA Region 8. Excerpts from Draft NPDES Permit No. COR042001, NPDES MS4 in Buckley AFB, Industrial (Revised 07/07/04)
64	07/07/2004	EPA Region 8. Excerpts from NPDES Permit No.: COR042003, NPDES MS4 in Fort Carson, Industrial (Revised 07/07/04).
65	09/2004	EPA. Stormwater BMP Design Guide: Volume 1 General

EPA Record Exhibit	Date	Document Description
		Considerations, EPA 600-R-04-12
66	10/2004	Center for Watershed Protection and Robert Pitt, University of Alabama. Illicit Discharge Detection and Elimination Manual
67	11/2004	WDOE. Discussion Paper: Proposed Flow Control Standard for Highly Urbanized Drainage Basins
68	2005	Washington Organic Recycling Council. Building Soil: Guidelines and Resources for Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington, 2 <sup>nd</sup> Edition- 2005, 2 <sup>nd</sup> Edition- 2010 printing, and 3 <sup>rd</sup> Edition, 2012 < <a href="http://www.soilsforsalmon.org/pdf/Soil_BMP_Manual.pdf">http://www.soilsforsalmon.org/pdf/Soil_BMP_Manual.pdf</a> >
69	2005	California –Nevada American Water Works Association Environmental Compliance Committee. Guidelines for the Development of Your BMPs Manual For Drinking Water System Releases.
70	01/2005	WDOE. Frequently Asked Questions about Reclaimed Water Use, Publication No.05-10-012
71	01/2005	Washington State University, Pierce County Extension and Puget Sound Action Team. LID Technical Guidance Manual for Puget Sound, Revised May 2005
72	04/2005	WDOE. 2005 Stormwater Management Manual for Western Washington: Volume I (Publication No. 05-10-029), Volume 2 (Publication No. 05-10-030), Volume 3 (Publication No. 05-10-031), Volume 4 (Publication No. 05-10-032), Volume 5 (Publication No. 05-10-033)
73	04/2005	Fort Lewis. Sustainable Fort Lewis: April 2004 – Apr 2005 Progress Report
74	06/01/2005	American Water Works Association. American Water Works Association Standard, Disinfecting Water Mains, C651.-05
75	12/2005	EPA. Federal and State Operated MS4s: Program Implementation, Fact Sheet 2.10, EPA 833-F-00-012, revised December 2005
76	01/2006	EPA. National Management Measures to Control Nonpoint Source Pollution from Urban Areas, December 2005, EPA 841-B-05-004
77	03/24/2006	WDOE. NPDES General Permit Fact Sheet for Small Municipal Separate Storm Sewers in Western Washington
78	05/19/2006	EPA Region 10. Summary of Services' Comments on Department of Ecology's MS4 permits – May 19, 2006
79	06/2006	Natural Resources Defense Council, LID Center, and University of Maryland School of Public Policy. Rooftops to Rivers: Green Strategies for Controlling Stormwater and Combined Sewer Overflows
80	08/2006	Clear Creek Solutions, Inc. Western Washington Hydrology Model



EPA Record Exhibit	Date	Document Description
		Version 3.0 User Manual
81	10/26/2006	Beyerlein, D. et al. Letter to Puget Sound Partnership, re: Partnership Recommendations To Improve Water Quality And Habitat By Managing Stormwater Runoff Protect Ecosystem Biodiversity And Recover Imperiled Species Provide Water For People, Fish And Wildlife, And The Environment.
82	10/27/2006	EPA Region 10. Summary of EPA Comments on WDOE's MS4 permits
83	10/27/2006	Letter from Ron Kreizenbeck, EPA, to Jay Manning, WDOE, re: EPA Review of Ecology's draft Phase I and Phase II National Pollutant NPDES general permits for municipal storm water in western Washington.
84	2007	Shaver, E., et al. Fundamentals of Urban Runoff Management: Technical and Institutional Issues – 2nd Edition, North American Lake Management Society, Madison, Wisconsin
85	2007	Horner, R. Initial Investigation of the Feasibility and Benefits of Low-Impact Site Development Practices for the San Francisco Bay Area.
86	2007	Horner, R. Supplementary Investigation of the Feasibility and Benefits of Low-Impact Site Development Practices for the San Francisco Bay Area
87	01/17/2007; Modified 6/17/2009; Modified 9/1/2010	WDOE. Phase I Municipal Stormwater Permit
88	01/17/2007 Modified 6/17/2009	WDOE. Western Washington Phase II Municipal Stormwater Permit
89	01/17/2007	WDOE. Response to Comments on the Municipal SW General Permits.
90	03/19/07	Booth, D. Presentation: "Managing Stormwater to Meet the Goals of the Puget Sound Partnership – or, why should we worry about urban runoff?" at Clean Water and Stormwater Conference, Law Seminars International, Seattle, Washington
91	05/2007	U.S. Government Accounting Office. Report to Congressional Requesters-Clean Water-Further Implementation and Better Cost Data Needed to Determine Impact of EPA's Storm Water Program on Communities
92	06/27/2007	Fort Lewis Environmental Management Manual, Document ID: EMS-100, Original Date: June 22, 2003, Revision date: June 27, 2007
93	08/22/2007	Theiler, D. and Rochelle, J., King County. Presentation to National

EPA Record Exhibit	Date	Document Description
		Research Council Subcommittee: "Stormwater Control Challenges in the Puget Sound Region"
94	09/2007	Center for Watershed Protection. National Pollutant Removal Performance Database, Version 3
95	10/2007	WDOE. Ecology Public Education Focus Fact Sheet, Publication No. 0710092
96	11/01/2007	EPA and Tetra Tech, Inc. Report to West Virginia Department of Environmental Protection – Options for West Virginia’s General Stormwater Permit Under NPDES Phase II
97	12/2007	EPA. Reducing Stormwater Costs through LID Strategies and Practices, EPA 841-F-07-006
98	12/2007	Washington Department of Health. Article: "Be prepared to measure chlorine residuals!" Water Tap Newsletter, Volume 22, No.5
99	2008	National Resource Defense Council and Waterkeeper Alliance. Economic Costs, Benefits and Achievability of Stormwater Regulations for Construction and Development Activities
100	2008	Holz, T. Without a Standard, LID is Another Form of High Impact Development
101	2008	Brochure: Economic Influence Statement, McChord AFB, WA Fiscal Year 2008
102	01/2008	WDOE. Guidance for Evaluating Emerging Stormwater Treatment Technologies, Technology Assessment Protocol – Ecology, Publication No. 02-10-037
103	01/2008	People for Puget Sound. A Strategy to Prevent the Generation of Stormwater Runoff to the Greatest Extent Feasible
104	01/08/2008	Riverkeeper. Sustainable Raindrops: Cleaning New York Harbor by Greening the Urban Landscape
105	03/19/2008	Direct Testimony of Dr. Derek Booth, (Phase I) Pollution Control Hearings Board for the State of Washington, PCHB Numbers 07-021, et al.
106	04/08/2008	Direct Testimony of Dr. Richard Horner, (Phase I) Pollution Control Hearings Board for the State of Washington, PCHB Numbers 07-021, et al.
107	06/10/2008	Email from Misha Vakoc, EPA, to Joyce Chavez, Fort Lewis, re: Fort Lewis Construction Activities General Permit questions
108	06/10/2008	Mason County Chapter 17.80, LID Regulations adopted 6/10/2008
109	06/13/2008	Memo from Linda Boornazian, Water Permits Division, and Steve Heare, Drinking Water Protection Division, to Water Division Directors, Regions 1-10, re: Clarification on which stormwater infiltration practices/technologies have the potential to be regulated as Class V wells by the Underground Injection Control Program

CERTIFICATION AND INDEX TO  
THE ADMINISTRATIVE RECORD - 10

**U.S. Environmental Protection Agency**  
**1200 Sixth Avenue, Suite 900**  
**Seattle, Washington 98101**  
**(206) 553-1037**

EPA Record Exhibit	Date	Document Description
110	07/2008	Hirschman and Kosco, J., Center for Watershed Protection. Managing Stormwater in Your Community: A Guide for Building an Effective Post-Construction Program, EPA Publication No: 833-R-08-001M
111	07/01/2008	NPDES General Permit for Stormwater Discharge from Construction Activities, WAR10-000F, Effective July 1, 2008 (As modified effective January 8, 2009)
112	07/01/2008	Fact Sheet for NPDES General Permit for Stormwater Discharge from Construction Activities, WAR10-000F, Effective July 1, 2008 (As modified effective January 8, 2009)
113	08/07/2008	<i>Puget Soundkeeper Alliance, et al. v. State of Washington Dept. of Ecology</i> , Findings of Fact, Conclusions of Law, and Order, Condition S4, PCHB No. 07-021 et al. (Aug. 7, 2008)
114	08/08/2008	<i>Puget Soundkeeper Alliance, et al. v. State of Washington Dept. of Ecology</i> , Findings of Fact, Conclusions of Law, and Order, Phase I, PCHB No. 07-021, et al. (Aug. 8, 2008)
115	09/2008	Fort Hood Storm Water Management Plan, Revision 2, September 2008; Prepared in accordance with Texas Pollutant Discharge Elimination System General Permit No. TXR040000
116	09/30/2008	<i>Puget Soundkeeper Alliance, et al. v. State of Washington Dept. of Ecology</i> , Order on Summary Judgment (Phase II Municipal Stormwater Permit), PCHB No. 07-022 et al. (Sept. 30, 2008)
117	10/15/2008	National Research Council. Urban Stormwater Management in the United States.
118	11/2008	Bureau of Environmental Services, City of Portland, Oregon. Cost-Benefit Evaluation of Ecoroofs, April 2008 (Revised November 2008)
119	12/2008	Bitting, J. and Kloss, C., LID Center. Managing Wet Weather with Green Infrastructure Municipal Handbook- Green Infrastructure Retrofit Policies, EPA-833-F-08-008
120	12/2008	Tetra Tech, Inc. Stormwater BMP Performance Analysis, Final Report, Prepared for EPA– Region 1
121	12/2008	Washington State Department of Transportation and Federal Aviation Administration. Aviation Stormwater Design Manual- Managing Wildlife Hazards Near Airports
122	12/01/2008	Puget Sound Partnership. Puget Sound Action Agenda: Protecting and Restoring the Puget Sound Ecosystem by 2020
123	2009	McCauley, et al., WDOE. Washington's Reclaimed Water Program- Evolving From Guidelines to Rule
124	2009	JBLM. Brochure: Announcing JBLM Beginning January 2010
125	01/2009	Gilroy, K. and McCuen, R. Spatio-temporal Effects of LID Practices, in <i>Journal of Hydrology</i> , 367 (2009) 228–236

EPA Record Exhibit	Date	Document Description
126	01/29/2009	EPA Region 8. Draft Statement of Basis – Fort Carson MS4, Permit No. CO-R042001
127	02/02/2009	<i>Puget Soundkeeper Alliance, et al. v. State of Washington Dept. of Ecology</i> , Findings of Fact, Conclusions of Law, and Order (Phase II Municipal Stormwater Permit), PCHB No. 07-022 et al. (Feb. 2, 2009)
128	02/03/2009	EPA Region 8. Preliminary Draft Permit– Fort Carson MS4, Permit No. CO-R042001
129	02/27/2009 modified 5/27/2009	EPA. NPDES MSGP for Stormwater Discharges Associated with Industrial Activity (Federal Facilities in Washington State), Permit No. WAR05-000F
130	02/13/2009	<i>Puget Soundkeeper Alliance, et al. v. State of Washington Dept. of Ecology</i> , Findings of Fact, Conclusions of Law, and Order, Revised Concurrence and Dissent (Phase II Municipal Stormwater Permit), PCHB No. 07-022 et al. (Feb. 13, 2009)
131	05/20/2009	Letter from Misha Vakoc, EPA, to Joyce Chavez, Fort Lewis Public Works, re: Responsibilities of an operator of construction activities that result in stormwater discharges
132	05/26/2009	Letter from Joyce Chavez, Fort Lewis Public Works, to Misha Vakoc, EPA, regarding the Notice of Intent for the Construction General Permit  Att 1: Memo for Distribution- Construction General Permit and Western Washington Stormwater Management Manual
133	06/2009	Jacob, J and Lopez, R. Is Denser Greener? An Evaluation of Higher Density Development as an Urban Stormwater-Quality Best Management Practice, in Journal of the American Water Resources Association, 45(3):687-701. DOI: 10.1111/j.1752-1688.2009.00316.x
134	07/17/2009	EPA Region 10. Municipality of Anchorage and Alaska Department of Transportation and Public Facilities MS4s Permit Fact Sheet, Permit No. AKS-052558
135	08/24/2009	Stratus Consulting. A Triple Bottom Line Assessment of Traditional and Green Infrastructure Options for Controlling CSO Events in Philadelphia's Watersheds
136	09/2009	WDOE. Frequently Asked Questions Municipal Stormwater Permits and Compliance with Standards, Publication Number: 09-10-0681
137	09/2009	Reese, A. Volume Based Hydrology – in Stormwater Magazine, September 2009, < <a href="http://StormH2O.com">http://StormH2O.com</a> >
138	09/02/2009	Letter from Michael Bussell, EPA, to Kelly Susewind, WDOE, re: Comments on the 6/3/2009 Draft Industrial SW General Permit
139	10/05/2009	Executive Order 13514 - Federal Leadership in Environmental, Energy,

EPA Record Exhibit	Date	Document Description
		and Economic Performance
140	10/26/2009	WDOE. Development of LID Standards, Advance Materials for Technical Advisory Committee Meeting No.1, November 2, 2009
141	10/29/2009	EPA Region 10. Municipality of Anchorage and Alaska Department of Transportation and Public Facilities MS4s Final Permit, Permit No. AKS-052558, issued 10-29-2009
142	10/29/2009	EPA Region 10. Municipality of Anchorage and Alaska Department of Transportation and Public Facilities MS4s Final Permit Response to Comments, Permit No. AKS-052558, dated 10/29/2009
143	11/2009	56 Mission Support Group Civil Engineering and Services. Luke AFB Falcon Dunes Golf Club Environmental Management Plan
144	12/2009	EPA. Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the EISA, EPA 841-B-09-001
145	12/2009	Washington Department of Health. Water System Design Manual
146	12/11/2009	Geosyntec Consultants; et al. Memorandum to Jeff Moeller, Water Environment Research Foundation, re: Drawing Appropriate Conclusions Regarding Volume Reduction in Practice- and Site-level Studies of Stormwater BMPs. < <a href="http://www.bmpdatabase.org/Docs/Drawing%20Appropriate%20Conclusions%20Regarding%20Volume%20Reduction_2009-12-11%20Final.pdf">http://www.bmpdatabase.org/Docs/Drawing%20Appropriate%20Conclusions%20Regarding%20Volume%20Reduction_2009-12-11%20Final.pdf</a> >
147	2010	Nisqually Valley News. Nisqually Building Code – a Supplement to the Nisqually Valley News
148	2010	U.S. Census Bureau. Seattle, Washington Urbanized Area Map, 2010 Census
149	01/19/2010	Memo from Dorothy Robyn, Deputy Under Secretary of Defense, Installations and Environment, to Acting Asst. Secretary of the Army, et al. re: DoD Implementation of Storm Water Requirements under Section 438 of EISA
150	04/2010	EPA. MS4 Permit Improvement Guide, EPA 833-R-10-001
151	04/06/2010	Naval Facilities Engineering Command. Interim Technical Guidance, ITG-2010-2, LID
152	04/15/2010	Letter from James Giattina, EPA Region 4, to James McIndoe, Alabama Department of Environmental Management, re: Expectations for MS4 Permits
153	05/2010	WDOE. Meeting Summary- Development of LID Standards for the Municipal Stormwater General Permits; Joint Advisory Committee Meeting, May 12, 2010, 10:00 am–4:00pm
154	05/2010	WDOE. Frequently Asked Question: Implementing the Flow Control Standard in Ecology's Western Washington Municipal Stormwater

EPA Record Exhibit	Date	Document Description
		Permits -Publication Number: 10-10-024-1
155	05/17/2010	Moeller, J., Water Environment Research Foundation. Presentation: "Stormwater Management for Clean Water and Livable Communities" at New England Interstate Water Pollution Control Commission, Annual Nonpoint Source Pollution Conference, Plymouth, Massachusetts
156	06/17/2010	Miller, E., Office of Deputy Under Secretary of Defense, Installations and Environment. Presentation: "DoD Storm Water Policy," at Environment, Energy and Sustainability Symposium and Exhibition, Denver, Colorado
157	06/30/2010	Reese, A. et al. Green Infrastructure and Storm Depth Retention Criteria, in July-August 2010 Stormwater Magazine < <a href="http://www.StormH2O.com">http://www.StormH2O.com</a> >
158	07/2010	EPA Region 3. Fact Sheet: Urban Stormwater Approach for the Mid-Atlantic Region and the Chesapeake Bay Watershed
159	07/28/2010	WDOE. Proposed Requirements and Timelines to Update Development Codes to Incorporate LID, August 2010
160	7/30/2010	WDOE. Ecology's Preliminary Thinking for the Reissuance of the Municipal Stormwater Permits
161	08/2010	Vizzini, D., Bureau of Environmental Services, City of Portland, Oregon. Presentation: "Portland and the Lessons on the road from Perdition to Redemption"
162	09/2010	WDOE. Frequently Asked Questions: Reporting Discharges and Spills under the Municipal Stormwater NPDES Permits, Publication Number: 07-10-089 (Revised 09/10)
163	09/2010	L. Matel. An Urban Approach to LID, in Civil Engineering magazine, September 2010, < <a href="http://Civil-Engineering.asce.org">http://Civil-Engineering.asce.org</a> >
164	09/2010	Tetra Tech, Inc. Stormwater BMP Performance Analysis (Draft), Prepared for WDOE and EPA Region 10
165	09/10/2010	Notes from WDOE Listening Session re: Reissuance of the Municipal Stormwater Permits, Renton Washington
166	9/15/2010	EPA Region 10. Compilation of SW BMP Operation and Maintenance references, created 9/15/2010
167	9/30/2010	Letter from Misha Vakoc, EPA, to Benjamin Benninghoff, Oregon Department of Environmental Quality, re:development of the draft NPDES permits for discharge from "Phase I" MS4s in Oregon
168	10/2010	Bissonnette Environmental Solutions. Final Review Draft, Task 1: Urban Stormwater Runoff Preliminary Needs Assessment Technical Memorandum, Prepared for The Puget Sound Partnership, October 2010; Contract No. 558-5881-002
169	10/06/2010	JBLM. Presentation by Paul Steucke, Jr.: "Joint Base Lewis McChord

EPA Record Exhibit	Date	Document Description
		Sustainability Program”
170	10/27/2010	Memo from Katherine Hammack, Asst. Secretary of the Army, Installations, Energy and Environment, to Army Distribution List re: Sustainable Design and Development Policy Update (Environmental and Energy Performance)
171	11/18/2010	Letter from Dennis McLerran, EPA, to Ted Sturdevant, WDOE, re: Re-issuance of the Western Washington Phase I and II Municipal Stormwater Permits soon after they expire on 02/15/2012
172	12/2010	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary: Nutrients
173	12/2010	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary: Fecal Indicator Bacteria
174	12/15/2010	California Water Resources Board. Amended Response to Comments for NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit), Order No. 2010-0014-DWQ, NPDES Permit No. CAS000002
175	12/22/2010	Letter from Ted Sturdevant, WDOE, to Dennis McLerran, EPA, re: Re-issuance of the Phase I and Phase II Municipal Stormwater Permits
176	2011	Washington Organic Recycling Council. Website: Soils for Salmon-Why build healthy Soil, accessed 11/30/2011 < <a href="http://www.soilsforsalmon.org/why.htm">http://www.soilsforsalmon.org/why.htm</a> >
177	01/2011	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary: Volume Reduction
178	01/21/2011	Letter from Martha Kongsgaard, et al., Puget Sound Regional Council, to Dennis McLerran, EPA, and Ted Sturdevant, WDOE, re: Puget Sound Regional Council Stormwater Retrofit Prioritization and Project Development Proposal
179	02/2011	Krishnan, G., et al. Stormwater Compliance for AFBs: Achieving compliance with recent and future regulations for stormwater compliance will require a holistic, base-wide strategy at Air Force Installations. The Military Engineer-Online Exclusive- January-February 2011- Volume 103, Number 669
180	04/20/2011	EPA Region 4. Field Measurement of Total Residual Chlorine, Document No. SESDPROC-112-R2
181	04/30/2011	JBLM. Project Specific Requirements, Sample, Revision 2.1
182	05/2011	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary: Solids (Total Suspended Solids, Total Dissolved Solids and Turbidity)
183	06/2011	HDR Engineering Inc. and KTA Associates, Inc. Integrated Contingency Plan, Prepared For: USACOE Seattle District and JBLM Environmental Division.

EPA Record Exhibit	Date	Document Description
184	06/2011	EPA Region 10. Notes re: JBLM Integrated Contingency Plan
185	06/14/2011	Sustainable JBLM, 2008-2010 Progress Report
186	08/2011	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary: Metals
187	09/2011	EPA Region 3. Government of the District of Columbia (Washington D.C) MS4 Permit, NPDES Permit No. DC0000221
188	09/2011	EPA Region 3. Government of the District of Columbia (Washington D.C) MS4 Permit, NPDES Permit No. DC0000221- Final Responsiveness Summary for the Fact sheet
189	10/19/2011	WDOE. Draft Western Washington Phase II Municipal Stormwater Permit
190	10/20/2011	S. Murphy, Solano Irrigation District. Presentation: "State of the Art for Disposal of Chlorinated Water," California/Nevada American Water Works Association Fall Conference
191	10/24/2011	WDOE. Draft Washington Phase I Municipal Stormwater Permit
192	10/28/2011	EPA Region 10. Western Washington Hydrology Model results, supporting EPA Analysis as contained in Appendix F of EPA Fact Sheet for the Proposed JBLM MS4 Permit.
193	10/28/2011	EPA Region 10. NPDES Permit No. IDS027561 for Ada County Highway District, Boise State University, City of Boise, City of Garden City, Ada County Drainage District No.3, and the Idaho Transportation Department District No.3 MS4s - Fact Sheet
194	11/4/2011	WDOE. Fact Sheet for the Western Washington Phase II Municipal Stormwater Permit NPDES and State Waste Discharge General Permit For discharges from Small MS4s In Western Washington
195	01/10/12	Oregon Department of Environmental Quality. Fact Sheet: Disposing of Chlorinated Water from Swimming Pools and Hot Tubs (12-WQ-003 ODEQ)
196	01/31/2012	Email from Bill Moore, WDOE, to John Palmer, EPA, re: Studies looking at the cumulative impact of projects less than 1 acre  Att 1: Booth, D. and R. Jackson. Urbanization of Aquatic Systems, Degradation Thresholds, Stormwater Detention, and the Limits of Mitigation, Journal of the American Water Resources Association, Volume 22, No. 5., October 1997
197	02/03/2012	Letter from Steve Landino, NMFS, to Michael Bussell, EPA, and Kelly Susewind, WDOE, re: Comments on the Draft Phase I and Phase II Municipal Stormwater Permit
198	02/03/2012	Letter from Michael Bussell, EPA, to Kelly Susewind, WDOE, re: Comments on Ecology's draft Phase I and Western Washington Phase II MS4 permits proposed October 2011 for effective date August 1,



EPA Record Exhibit	Date	Document Description
		2013
199	03/05/2012	Presentation by Paul Steucke, Jr., JBLM: "JBLM Sustainability Program ~ Baselines, Goal Setting and Bears – Oh My!"
200	04/13/2012	EPA. NPDES General Permit for Stormwater Discharge Associated with Construction Activities, WAR12-000F, Effective April 13, 2012
201	04/19/2012	JBLM. Presentation to EPA Office of Research and Development representatives: "JBLM 101"
202	05/22/2012	EPA Office of Research and Development. Presentation to JBLM: "Overview of EPA Office of Research and Development's Safe and Sustainable Water Resources Research Activities Related to JBLM Net Zero Water Objectives
203	07/2012	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database Pollutant Category Summary Statistical Addendum: Total Suspended Solids, Bacteria, Nutrients, and Metals
204	07/01/2012	Geosyntec Consultants, Inc., et al. International Stormwater BMP Database: Narrative Overview of BMP Database Study Characteristics.
205	08/2012	McMordie Stouton, K.L., et al. Department of Energy, Pacific Northwest National Laboratory. JBLM Net Zero Program Water Balance Report
206	08/2012	Stormwater Management Manual for Western Washington, including Volumes 1, 2, 3, 4, and 5; Errata Sheet; Change Chart; and LID Flow Chart, Publication No. 12-10-030
207	08/01/2012	WDOE. Response to Comments on the Phase I Municipal Permit and the Western Washington Phase II Municipal Stormwater Permit
208	08/01/2012	WDOE. Western Washington Phase II Municipal Stormwater Permit, issued August 1, 2012, effective date August 1, 2013
209	08/01/2012	WDOE. Western Washington Phase I Municipal Stormwater Permit issued August 1, 2012, effective date August 1, 2013
210	08/07/2012	EPA Region 1. NPDES Small MS4 Permit- Massachusetts, Appendix B – Standard Permit Conditions Applicable to All Authorized Discharges
211	08/10/2012	WDOE. Frequently Asked Questions: Water Quality Program Industrial Stormwater General Permit
213	08/14/2012	EPA Region 10. Impervious Analysis of JBLM
214	08/14/2012	EPA Region 10. Canopy Analysis of JBLM
215	08/27/2012	Email from Ed O'Brien, WDOE, to John Palmer, EPA, re: waiver for flow control
216	09/27/2012	Hardebeck, N. Article: "Bringing clarity to stormwater management policy;" in Daily Journal of Commerce, < <a href="http://www.djc.com/news/en/12045376.html">http://www.djc.com/news/en/12045376.html</a> >
217	11/2012	Presentation by JBLM: "Orientation Briefing"

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218	12/2012	Hinman, C., WSU-Pierce Co Extension and Wulkan, B., Puget Sound Partnership. LID Technical Manual for Puget Sound, Publication Number PSP-2012-3 < <a href="http://www.psp.wa.gov/LID_manual.php">http://www.psp.wa.gov/LID_manual.php</a> >
219	12/11/2012	EPA Region 10. NPDES Permit No. IDS027561 for Ada County Highway District, Boise State University, City of Boise, City of Garden City, Ada County Drainage District No.3, and the Idaho Transportation Department District No.3 MS4s - Response to Comments
220	12/12/2012	EPA Region 10. NPDES Permit No. IDS027561 for Ada County Highway District, Boise State University, City of Boise, City of Garden City, Ada County Drainage District No.3, and the Idaho Transportation Department District No.3 MS4s – Final Permit, issued 12/12/2012
221	01/04/2013	USACOE, Baltimore District with Support from the LID Center. Army LID Technical User Guide, Office of the Assistant. Chief of Staff for Installation Management
222	02/13/2013	Oregon Department of Environmental Quality. Industrial Stormwater BMP Manual
223	03/11/2013	WDOE. Flow Chart for Determining LID Minimum Requirement #5 Requirements, Revised 3/11/13
224	05/16/2013	EPA Region 10. Compilation of references pertaining to Education and Public Outreach programmatic resources available to MS4 permittees in Puget Sound Area
225	06/2013	Hinman, C., et al., Pierce County Cooperative Extension. Rain Garden Handbook for Western Washington- A Guide for Design, Maintenance, and Installation
226	07/2013	EPA Office of Water. Presentation: “Clean Water Act’s Stormwater Program”
<b>Water Quality Information</b>		
227	10/1997	Pierce County Public Works and Utilities. Chambers-Clover Creek Watershed Management Committee Watershed Action Plan. Chapter 7
228	05/2000	Dehne, K., University of Washington. Clover Creek/Morey Creek Study, McChord Air Force Base, Washington
229	12/2001	WDOE. Assessment of Surface Water and Groundwater Interchange within the Muck Creek Watershed- Pierce County. Publication No. 01-03-037
230	12/13/2002	WDOE. Chambers-Clover Creek Watershed – WRIA 12.
231	06/08/2004	Tacoma Pierce County Health Department. Chambers-Clover Creek Watershed Management Plan, Final Draft, June 8, 2004, Chapter 3
232	08/09/2005	Pierce County. Clover Creek Basin Plan, Volume 1 – Basin Plan and Supplemental Environmental Impact Statement As Adopted Pierce

EPA Record Exhibit	Date	Document Description
		County Council 2003-20s, Effective 08/22/2005, Chapters 2, 4, 7 and 10
233	09/2005	Pierce County. Muck Creek Basin Plan, Volume 1 and 2, as adopted Pierce County Council -2003-62s
234	09/06/2006	WDOE. Policy Document 1-11: Assessment of Water Quality for the Clean Water Act Sections 303(d) and 305(b) Integrated Report
235	03/2007	Herrera Environmental Consultants. Watershed Management Plan-Final- Murray/Sequalitchew Watershed, Prepared for ENSR, Inc and U.S. Army, Fort Lewis DPW, Contract No.DACA67-00-D-2009/DO No.31
236	08/2007	AHBL, Inc. and Northwest Hydraulic Consultants Inc. Sequalitchew Springs Source Water Protection Project, AHBL Project 204689, Prepared for U.S Army Corps of Engineers, Seattle District
237	08/2007	AHBL, Inc. and Northwest Hydraulic Consultants, Inc Sequalitchew Springs Source Water Protection Project. AHBL Project 204689. Prepared for USACOE, Seattle District
238	2008	WDOE. Water Quality Assessment Home Query Form Query Results – American Lake = Total Phosphorus
239	03/23/2009	WDOE. Map of WRIAs and Major Public Lands
240	03/23/2009	WDOE. Map of Nisqually WRIA 11
241	03/23/2009	WDOE. Map of Chamber/Clover WRIA 12
242	03/24/2010	WDOE. 2008 Water Quality Assessments and Map -2008 Water Quality 303(d)-Category 5 List: Chambers/Clover WRIA 12, Accessed 3/24/2010
243	04/12/2010	WDOE. 2008 Water Quality Assessments and Map -2008 Water Quality 303(d)-Category 5 List: Nisqually WRIA 11, Accessed 3/24/2010 and 4/12/2010
244	04/12/2010	Pacific Lutheran University. Watershed Projects- Pacific Lutheran University Environmental Studies. Accessed 4/12/10
245	10/25/2010	Pierce County. Nisqually River Basin Plan, Chapter 3
<b>Documents Pertaining to Monitoring Provisions</b>		
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247	06/1994	WDOE. Instream Biological Assessment Monitoring Protocols: Benthic Macroinvertebrates, Publication No.94-113
248	08/01/1998	Picking Benthic Macroinvertebrate Samples; Processing your collected sample.
249	11/2002	WDOE. A Water Quality Index for Ecology's Stream Monitoring Program, Publication No. 02-03-052
250	06/15/2005	Maryland Department of Environment. Baltimore County, Maryland – MDE NPDES MS4, Permit Number 99-DP-3317 (MD0068314).

EPA Record Exhibit	Date	Document Description
251	06/21/2006	Brown and Caldwell. Pierce County Countywide Water Quality Monitoring Plan, Draft Revision 1
252	05/31/2007	Hayslip, G. Methods for the Collection and Analysis of Benthic Macroinvertebrate Assemblages in Wadeable Streams of the Pacific Northwest
253	12/2007	Regional Monitoring of Southern California's Coastal Watersheds, Stormwater Monitoring Coalition Bioassessment Working Group, Southern California Coastal Water Research Project, Technical Report 539-December 2007 SCCWRP
254	10/2009	Urban Stormwater BMP Performance Monitoring. October 2009. Prepared under Support from U.S. Environmental Protection Agency, Water Environment Research Foundation, Federal Highway Administration, Environmental and Water Resources. Institute of the American Society of Civil Engineers.
255	10/28/2009	Heal the Bay, Santa Monica. Presentation: Using the Southern California IBI Index of Biological Integrity to Inform Clean Water Act Impairments
256	02/16/2010	Maryland Department of Environment. Montgomery County, Maryland - MDE NPDES MS4, Permit Number 06-DP-3320 (MD00683-49).
257	06/2010	Stormwater Monitoring and Assessment Strategy for the Puget Sound Region Appendices
258	07/2010	Thurston County. Water Resources Monitoring Report, 2007-2008 Water Year, 2008-2009 Water Year; Benthic Macroinvertebrates Monitoring
259	07/01/2010	Letter from Jim Simmonds, Puget Sound Stormwater Work Group, to David Dicks, Puget Sound Partnership, and Ted Sturtevant, WDOE, re: Stormwater Monitoring and Assessment Strategy for the Puget Sound Region
260	08/2010	WDOE. Quality Assurance Monitoring Plan Ambient Biological Monitoring in Rivers and Streams: Benthic Macroinvertebrates and Periphyton, Publication No.10-03-109.
261	10/06/2010	Letter from Michael Bussell, EPA, to Colonel Kilb, JBLM, re: Additional Requirements for McChord AFB under the NPDES MSGP, Permit Number WAR05B83F
262	10/29/2010	Letter from Jim Simmonds, Puget Sound Stormwater Work Group, to Ted Sturtevant, WDOE, re: Stormwater Monitoring and Assessment Strategy for the Puget Sound Region
263	12/2010	WDOE. Quality Assurance Project Plan Guidance, Special Condition S8.D - Phase I Municipal Stormwater Permit. Publication no. 10-10-075
264	02/2011	Pierce County, WA. Quality Assurance Project Plan for Targeted

CERTIFICATION AND INDEX TO  
THE ADMINISTRATIVE RECORD - 20

**U.S. Environmental Protection Agency**  
**1200 Sixth Avenue, Suite 900**  
**Seattle, Washington 98101**  
**(206) 553-1037**

EPA Record Exhibit	Date	Document Description
		Stormwater Management Program Effectiveness Monitoring - Appendix A: BIBI Sampling SOP and Field Sheet, Prepared in Compliance with Section S8.E of the Western WA Phase I Municipal Stormwater Permit
265	02/03/2011	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA, re: quarterly MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
266	02/16/2011	Kammin, W.R. WDOE Environmental Assessment Program-Standard Operating Procedures and Minimum Requirements for the Collection of Freshwater Benthic Macroinvertebrate data in Wadeable Streams and Rivers Version 1.0
267	04/13/2011	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA re: MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
268	05/16/2011	Puget Sound Partnership. Setting Targets for Puget Sound Recovery-Revised Addendum to Technical Memorandum dated March 23, 2011 on Runoff from the Built Environment, Draft
269	07/20/2011	Puget Sound Partnership. Puget Sound Ecosystem Recovery Targets, updated 7/20/2011
270	07/26/2011	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA, re: MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
271	10/27/2011	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA, re: MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
272	11/21/2011	King County, et al. Puget Sound Stream Benthos – Pierce County/Clover Creek sampling location data, sampling date = 8/5/2010 < <a href="http://pugetsoundstreambenthos.org/">http://pugetsoundstreambenthos.org/</a> >
273	11/21/2011	University of Washington. Biological Integrity and the Index of Biological Integrity, < <a href="http://www.cbr.washington.edu/salmonweb/bibi/biomonitor.html">http://www.cbr.washington.edu/salmonweb/bibi/biomonitor.html</a> >
274	2012	Pierce County. Pierce County Surface Water Management Water Quality Index < <a href="http://www.co.pierce.wa.us/Archive.aspx?AMID=146">http://www.co.pierce.wa.us/Archive.aspx?AMID=146</a> >
275	2012	Puget Sound Ecosystem Monitoring Program’s Salmonid Work Group. Methods and Quality of Viable Salmonid Population Monitoring of ESA listed Puget Sound Salmon and Steelhead with Identified Critical Gaps, 2012
276	01/11/2012	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA, re: MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
277	10/23/2012	Email from Martin Burris, JBLM, to John Palmer, EPA, re: Metals

EPA Record Exhibit	Date	Document Description
		<p>testing in Clover and Morey Creek on McChord Field JBLM</p> <p>Att 1: McChord Field SW Analysis- Quarterly Results Oct-Dec 2010; Jan-Mar 2011; April-June 2011; July-Sept 2011</p> <p>Att 2: Metals testing in Clover and Morey Creek on McChord Field JBLM</p> <p>Att 3: Clover Creek Metals 2011-2012</p>
278	02/06/2013	Letter from Paul Steucke, Jr., JBLM, to MSGP Coordinator, EPA, re: MSGP Industrial Discharge Monitoring Report for stormwater outfalls on McChord Field
279	08/13/ 2013	Washington State University-Puyallup, Center for Urban Waters, University of Washington-Tacoma. Washington Stormwater Center < <a href="http://www.wastormwatercenter.org/home">http://www.wastormwatercenter.org/home</a> >, accessed 12/31/2010 and 8/13/2013
280	08/16/2013	King County, et al. Puget Sound Stream Benthos – About us and Site map, < <a href="http://pugetsoundstreambenthos.org/">http://pugetsoundstreambenthos.org/</a> >
<b>Endangered Species Act</b>		
<b>1. ESA Technical Support Documents</b>		
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287	1982	Simenstad, et al. The Role of Puget Sound and Washington Coastal Estuaries in the Life History of Pacific Salmon: an Unappreciated Function. Estuarine Comparisons. V. S. Kennedy. New York, NY, Academic Press: 343-364.
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		Dolly Varden in Southeast Alaska. Transactions of the American Fisheries Society 115:743-755, Published 1986
289	1983	Neilson, J.D., and C.E. Banford. Chinook Salmon ( <i>Oncorhynchus tshawytscha</i> ) Spawner Characteristics in Relation to Redd Physical Features. Canadian Journal of Zoology 61:1254-1531
290	1985	Slaney, T.L., et al. Review of the Effects of Enhancement Strategies on Interaction among Juvenile Salmonids. Canadian Report on Fisheries and Aquatic Science 1852
291	1986	Hartt, A.C., and M.B. Dell. Early Oceanic Migrations and Growth of Juvenile Pacific Salmon and Steelhead Trout. International North Pacific Fisheries Commission Bulletin 46
292	1986	House, R.A., and P.L. Boehne. Effects of Instream Structures on Salmonid Habitat and Populations in Tobe Creek, Oregon. North American Journal of Fisheries Management 6:38-46.
293	1986	Laufle, et al. Species Profile: Life Histories and Environmental Requirements of Coastal Fishes and Invertebrates (Pacific Northwest), Coho Salmon. FWS Biological Report 82.
294	1990	Bell, M.C. Fisheries Handbook of Engineering Requirements and Biological Criteria. U.S. Army Corps of Engineers, Office of the Chief of Engineers, Fish Passage Development and Evaluation Program. Portland, Oregon; 1986; updated 1990.
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308	04/1998	G. Murray, R. Bailey. Change in Pacific Northwest Coastal Ecosystems, NOAA Coastal Ocean Program Decision Analysis Series, No. 1
309	12/1998	NOAA. Description and Identification of EFH for Coastal Pelagic Species - Appendix D to the Fishery Management Plan < <a href="http://www.nwr.noaa.gov/habitat/essential_fish_habitat/efh_consultations.html">http://www.nwr.noaa.gov/habitat/essential_fish_habitat/efh_consultations.html</a> >
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311	01/21/1999	Kerwin, J. Salmon and Steelhead Habitat Limiting Factors - Water Resource Inventory, Area 11, WA State Conservation Commission Final Report
312	02/11/1999	NMFS Map: Puget Sound Coho Salmon ESU
313	11/08/1999	Chinook Status Review: Chinook Life History, Technical Memorandum, NOAA-NWFSC-35
314	06/2003	Pierce Conservation District. Salmonid Habitat Limiting Factors Analysis, Chambers-Clover Creek Watershed (Including Sequelitchew Creek and Independent Tributaries), WRIA 12
315	05/2004	FWS. Draft Recovery Plan for the Coastal-Puget Sound Distinct Population Segment of Bull Trout ( <i>Salvelinus confluentus</i> ), Volume I and II, Puget Sound Management Unit, May 2004
316	08/2004	Excerpts from EFH Final Environmental Impact Statement: Risk Assessment for the Pacific Groundfish Fisheries Management Plan,



EPA Record Exhibit	Date	Document Description
		Appendix A < <a href="http://www.nwr.noaa.gov/publications/nepa/groundfish/final_groundfish_eis.html">http://www.nwr.noaa.gov/publications/nepa/groundfish/final_groundfish_eis.html</a> >
317	10/2004	DoD and FWS. Integrated Natural Resources Management Plans
318	04/22/2005	Northwest Economic Associates-Entrix, Inc. Draft Economic Analysis of Critical Habitat Designation for Three Populations of Bull Trout Coastal- Puget Sound, Jarbridge River, Saint Mary-Belly River, Prepared for FWS
319	06/2005	Good, T.P., et al. Updated Status of Federally Listed ESUs of West Coast Salmon and Steelhead. NOAA Technical Memorandum, NMFS-NWFSC-66
320	11/2005	Stinson, D, WDFW. Status Report for the Mazama Pocket Gopher, Streaked Horned Lark, and Taylor's Checkerspot
321	05/19/2006	Letter to Jay Manning, WDOE, from Steve Landino, NMFS, and Ken Berg, FWS, re: Draft Phase I and II Western WA Municipal Stormwater NPDES and State Waste Discharge Permits
322	11/17/2006	NMFS Northwest Region. Final Supplement to the Shared Strategy's Puget Sound Salmon Recovery Plan, < <a href="http://www.nwr.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/puget_sound/puget_sound_chinook_recovery_plan.html">http://www.nwr.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/puget_sound/puget_sound_chinook_recovery_plan.html</a> >
323	01/19/2007	Shared Strategy Development Committee. Puget Sound Salmon Recovery Plan, Volume 1, Adopted by NMFS, January 19, 2007 < <a href="http://www.nwr.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/puget_sound/puget_sound_chinook_recovery_plan.html">http://www.nwr.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/puget_sound/puget_sound_chinook_recovery_plan.html</a> >
324	05/30/2007	WDOE. Nisqually WRIA 11, WDFW - Salmonid Stock Inventory-Dolly Varden /Bull Trout
325	06/2007	Hard., et al. Status review of Puget Sound steelhead (Oncorhynchus mykiss), NOAA Tech. Memo, NMFS-NWFSC-81
326	10/2007	NMFS Map: Steelhead Trout Critical Habitat
327	10/2007	U.S. Army Environmental Command. Army Growth and Force Structure Realignment Final Programmatic Environmental Impact Statement
328	12/2007	NMFS Map: Chinook Salmon Critical Habitat
329	05/30/2008	WDOE. Chambers/Clover WRIA 12- WDFW - Salmonid Stock Inventory Maps (3): Winter Steelhead, Winter Chum, and Coho Salmon
330	05/30/2008	WDOE. Nisqually WRIA11- WDFW - Salmonid Stock Inventory Maps (3): Winter Steelhead, Winter Chum, and Coho Salmon
331	07/02/2008	Pacific Coast Groundfish FMP for the California, Oregon, and

EPA Record Exhibit	Date	Document Description
		Washington Groundfish Fishery, As Amended through Amendment 19 including Amendment 15
332	2009	WDOE. Anadromous Fish Maps – Salmonid Stock Inventory (SaSI). Salmonid Stock Inventory by WRIA in PDF Format.
333	2009	Nature Conservancy. January-December 2009 Annual Report, Fort Lewis Conservation Project, page 29
334	03/2009	Installation Services Directorate, Army Environmental Division. Installation Summaries from the FY 2007 Survey of Threatened and Endangered Species on Army Lands
335	04/2009	DeGasperi, C., et al. Linking Hydrologic Alteration to Biological Impairment in Urbanizing Streams of the Puget Lowland, Washington, USA, in Journal of the American Water Resources Association 45(2):512-533. DOI: 10.1111/j.1752-1688.2009.00306.x
336	10/05/2009	EPA Region 10. Draft Biological Evaluation and EFH Assessment for the EPA's Re-issuance of the NPDES Permit for Municipality of Anchorage and Alaska Department of Transportation and Public Facilities MS4s, NPDES Permit No. AKS-052558
337	01/27/2010	EPA Region 10. Fact Sheet for NPDES Permit No.: WA-002195-4-Fort Lewis - Solo Point Wastewater Treatment Plant
338	01/27/2010	Biological Evaluation for Reissuance of the Fort Lewis NPDES Permit, Number: WA-002195-4. EPA Region 10
339	03/04/2010	Letter from Ken Berg, FWS, to Michael Lidgard, EPA, re: Biological Opinion on the Reissuance of the Fort Lewis Wastewater Treatment Plant, NPDES Permit No. WA-002195-4. Reference No.13410-2009-F-0394.
340	05/2010	U.S. Army. Final Biological and EFH Assessment- Army Growth and Force Structure Realignment (Grow the Army or GTA) at Fort Lewis and Yakima Training Center, WA < <a href="http://www.lewis.army.mil/publicworks/docs/envir/EIA/GrowTheArmyEIS/Appendix F Biological and Essential Fish Habitat Assessment (BA).pdf">http://www.lewis.army.mil/publicworks/docs/envir/EIA/GrowTheArmyEIS/Appendix F Biological and Essential Fish Habitat Assessment (BA).pdf</a> >
341	05/21/2010	EPA Region 10. Biological Evaluation for Reissuance of the Fort Lewis NPDES Permit - Addendum prepared in response to a Request for Additional information from NMFS
342	09/09/2010	Wenger, S. et al. Macroscale hydrologic modeling of ecologically relevant flow metrics, in Water Resources Research, Volume 46, W09513, doi: 10.1029/2009WR008839
343	12/10/2010	Ford, M.J. Status review update for Pacific salmon and steelhead listed under the ESA: Northwest (Draft), NOAA Technical Memorandum
344	2011	Anderson, H. Cooperative Conservation on the Puget Sound Prairies - The JBLM Army Compatible Use Buffer Program, Endangered

EPA Record Exhibit	Date	Document Description
		Species Bulletin, Volume 36, No. 1, Spring 2011
345	2011	FWS Cooperative Conservation on the Puget Sound Prairies, Sustaining the Mission at JBLM, Endangered Species Bulletin, Volume 36, No. 1, Spring 2011
346	2011	NMFS Puget Sound Steelhead Technical Recovery Team, Initial Draft Assessment
347	02/2011	U.S. Army. Record of Decision - Fort Lewis Army Growth and Force Structure Realignment
348	03/2011	U.S. Army Environmental Command. Record of Decision of the Realignment Growth, and Stationing of Army Aviation Asset
349	04/20/2011	R. Bilby and L. Molloy. Effect of changing land use patterns on the distribution of coho salmon ( <i>Oncorhynchus kisutch</i> ) in the Puget Sound region, Canadian Journal of Fisheries and Aquatic Sciences <www.nrcresearchpress.com>
350	05/02/2011	NOAA. Non-concurrence and Initiation of Formal ESA and Magnuson Stevens Fishery Conservation and Management Act EFH Consultations for the Re-issuance of the National Pollution Discharge Elimination System Permit for the City of Puyallup Wastewater Treatment Plant, Permit No. WA-003716-8 (Pierce County, Sixth Field HUC 171100140502, Lower Puyallup River)
351	05/13/2011	Letter from Ken Berg, FWS, to Michael Lidgard, EPA, re: Reissuance of the NPDES Permit for the City of Puyallup Wastewater Treatment Plant, Permit No. WA003716-8.
352	06/2011	Audobon Society, et al. Presentation: 2011 Dupont Settlement Agreement. Prepared by Negotiators for National Audobon Society(Black Hills/Tahoma/Seattle Chapters); Nisqually Delta Association; Washington Environmental Council; People for Puget Sound; Anderson Island Quality of Life Association; WDOE; City of Dupont; and CalPortland Company.
353	2012	WDFW. 2012 Washington Fishing Prospects: Where to Catch Fish in Washington State
354	2012	FWS: Species Profile: Bull Trout ( <i>Salvelinus confluentus</i> )
355	01/25/2012	WDOE, City of Dupont, CalPortland, and the Environmental Caucus. Press Release, "Dupont Approves watershed restoration and mining permit application agreement"
356	01/30/2012	NMFS. Issuance of an Incidental Take Permit, ESA Section 7 Formal Consultation and Magnuson-Stevens Fishery Conservation and Management Act EFH Consultation for Reissuance of the Fort Lewis (Joint Base Lewis McChord) Wastewater Treatment Facility NPDES Permit (WA-002195-4) (Sixth Field HUCNo. 17110019060 (Chambers Creek) Pierce County, Washington, NMFS Tracking No. 2009/03531

EPA Record Exhibit	Date	Document Description
357	03/30/2012	EPA Region 10. Biological Evaluation for the Reissuance of the City of Puyallup NPDES Permit
358	06/05/2012	Notes from 06/05/2012 EPA Region 10 meeting with FWS and NMFS
359	07/11/2012	Memo from J. Small, et al., Anchor QEA, Incorporated, to Lance Winecka, South Puget Sound Salmon Enhancement Group, re: Conceptual Restoration Strategy for the Sequelitchew Creek Watershed, July 2012 < <a href="http://www.ci.dupont.wa.us/files/library/1e3d5eb72842c5f2_o.pdf">http://www.ci.dupont.wa.us/files/library/1e3d5eb72842c5f2_o.pdf</a> >
360	08/2012	FWS. Species Fact Sheet: Taylor's checkerspot <i>Euphydryas editha taylori</i>
361	08/02/2012	NMFS. Chinook (Page last updated August 2, 2012). < <a href="http://www.nwr.noaa.gov/ESA-Salmon-Listings/Salmon-Populations/Chinook/Index.cfm">http://www.nwr.noaa.gov/ESA-Salmon-Listings/Salmon-Populations/Chinook/Index.cfm</a> >
362	08/8/2012	South Sound Prairies. The Mazama Pocket Gopher (Fact sheet)
363	08/11/2012	NMFS. ESA Status of West Coast Salmon and Steelhead.
364	08/17/2012	NMFS. Puget Sound Steelhead DPS – Threatened
365	11/15/2012	Agenda, Meeting Notes, MS4 Outfall Maps and 18 Site Photos taken during EPA's 11/15/2012 Onsite Tour/Visit to JBLM with Martin Burris and Jennifer Smith, JBLM; Jeff Fisher and Scott Anderson, NMFS; Ryan McReynolds, FWS; John Palmer and Misha Vakoc, EPA
366	03/22/2013	Memo from Misha Vakoc, EPA, to File, re: No Effect Determinations in support of EPA Region 10's Biological Evaluation and EFH Assessment for Issuance of the NPDES Permit for Discharges from the JBLM MS4 NPDES Permit No.WAS-026638
367	04/19/2013	EPA Region 10. Biological Evaluation and EFH Assessment for Issuance of NPDES Permit No.WAS-026638 For Discharges from the Joint Base Lewis-McChord MS4 (MS4)-April 2013
368	04/25/2013	Meeting notes re: NMFS and FWS presentations to EPA Region 10 staff at Stormwater Technical Meeting re: results from EPA- grant supported research on stormwater and salmonids
<b>2. ESA Related Correspondence</b>		
369	01/31/2012	Email from John Palmer, EPA, to Steven Landino, NMFS, and Ken Berg, FWS, re: Draft JBLM MS4 Permit and Fact Sheet  Att 1: JBLM Public Notice, dated 1/26/2012 Att 2: JBLM MS4 Permit Fact Sheet, dated 1/26/2012 Att 3: JBLM Draft MS4 Permit, dated 1/26/2012
370	10/19/2012	Email from John Palmer, EPA, to Jeff Fisher, NMFS, and Ryam McReynolds, FWS, re: Draft BE JBLM MS4 Permit  Att 1: Draft Biological Evaluation and EFH Assessment for Issuance of

EPA Record Exhibit	Date	Document Description
		the NPDES Permit for Discharges from the JBLM MS4 Permit
371	04/22/2013	<p>Letter from John Palmer, EPA, to Steve Landino, NMFS, and Ken Berg, USFWS, re: ESA and EFH Consultation for EPA's Issuance of the NPDES permit for Discharges from the JBLM MS4, Permit No.WAS-026638</p> <p>Att 1: Biological Evaluation and EFH Assessment for Issuance of NPDES Permit No.WAS-026638 For Discharges from the JBLM MS4 - April 2013</p> <p>Att 2: Final Draft JBLM MS4 Permit, dated 4/2013</p>
372	04/22/2013	<p>Email from John Palmer, EPA, to Jeff Fisher and Scott Anderson, NMFS; and Ryan McReynolds, FWS; re: JBLM MS4 Consultation</p> <p>Att 1: EPA letter, dated 4/22/2103</p> <p>Att 2: Biological Evaluation and EFH Assessment for Issuance of NPDES Permit No.WAS-026638 For Discharges from the JBLM MS4 - April 2013</p> <p>Att 3: Final Draft JBLM MS4 Permit, dated 4/2013</p>
373	06/20/2013	<p>Letter from Ken Berg, FWS, to Michael Lidgard, EPA, re: Informal ESA Consultation- EPA Issuance of NPDES Permit No. WAS-026638, JBLM, Thurston and Pierce Counties, Washington</p>
374	07/12/2013	<p>Letter from William Stelle Jr., NMFS, to John Palmer, EPA, re: ESA Section 7 Informal Consultation and Magnuson-Stevens Fishery Conservation and Management Act EFH Consultation for JBLM MS4 NPDES Authorization, Pierce County WA (6<sup>th</sup> Filed HUC 17110090304 Chambers Creek-Frontal Puget Sound)</p>
375	08/26/2013	<p>Letter from Daniel Opalski, EPA, to William Stelle Jr., NMFS, re: JBLM MS4, NPDES Permit No. WAS-026638, NMFS Reference No.NWR-2013-10009</p> <p>Att 1: Final NPDES Permit for JBLM MS4</p> <p>Att 2: Response to Comments on the NPDES Permit for Discharges from the JBLM MS4</p>
376	08/26/2013	<p>Letter from Daniel Opalski, EPA, to Ken Berg, FWS, re: JBLM MS4, NPDES Permit No. WAS-026638; USFWS Reference No.01EWF00-201301-0271</p> <p>Att 1: Final NPDES Permit for JBLM MS4</p> <p>Att 2: Response to Comments on the NPDES Permit for Discharges from the JBLM MS4</p>
377	08/27/2013	<p>Email from Misha Vakoc, EPA, to Jeff Fisher, et al, NMFS,</p>

EPA Record Exhibit	Date	Document Description
		<p>re: Transmittal of Final NPDES Permit for JBLM MS4, Permit No.WAS-026638</p> <p>Att 1: Final NPDES Permit for JBLM MS4  Att 2: Response to Comments on the NPDES Permit for Discharges from the JBLM MS4  Att 3: EPA Letter to NOAA, dated 8/26/2013</p>
378	08/27/2013	<p>Email from Misha Vakoc, EPA, to Ryan McReynolds, FWS, re: Transmittal of Final NPDES Permit for JBLM MS4, Permit No.WAS-026638</p> <p>Att 1: Final NPDES Permit for JBLM MS4  Att 2: Response to Comments on the NPDES Permit for Discharges from the JBLM MS4  Att 3: EPA Letter to FWS dated 8/26/2013</p>
<b>Tribal Consultation</b>		
379	05/21/2010	<p>Email from Char Naylor, Puyallup Tribe, to Misha Vakoc, EPA, re: Consultation/Discussion of EPA's Preliminary Draft MS4 Permit for JBLM</p>
380	06/15/2010	<p>Letter from Michael Bussell, EPA to Cynthia Iyall, Nisqually Indian Tribe, re: Invitation to Consult on a NPDES Permit for Discharges from the Joint Base Lewis McChord MS4, Permit No. WAS-026638</p>
381	12/15/2011	<p>Letter from Michael Gearheard, EPA, to Cynthia Iyall, Nisqually Indian Tribe, re: Invitation to Consult on a NPDES Permit for Discharges from the JBLM MS4, Permit No. WAS-026638</p> <p>Att 1: Preliminary Draft JBLM MS4 Permit dated 12/9/2011</p>
382	02/07/2012	<p>Letter from Michael Bussell, EPA, to Cynthia Iyall, Chair- Nisqually Indian Tribe, re: Public notice draft MS4 Permit for Joint Base Lewis-McChord</p> <p>Att 1: Draft JBLM Draft MS4 Permit dated January 2012  Att 2: Fact Sheet – JBLM MS4 Permit, dated 1/26/2012  Att 3: JBLM Public Notice, dated 1/26/2012</p>
383	03/16/2012	<p>Letter from Michael Bussell, EPA to Herman Dillon, Sr., Puyallup Tribe, re: Invitation to Consult on a National Pollutant Discharge Elimination System (NPDES) Permit for Discharges from the JBLM MS4 Permit No. WAS-026638</p> <p>Att 1: Draft JBLM Draft MS4 Permit dated January 2012  Att 2: Fact Sheet – JBLM MS4 Permit, dated 1/26/2012</p>

EPA Record Exhibit	Date	Document Description
		Att 3: JBLM Public Notice, dated 1/26/2012
384	09/06/2012	Email from Misha Vakoc, EPA, to Char Naylor, Puyallup Tribe, re: Status of EPA's Draft NPDES Stormwater Permits for Discharges to waters subject to Puyallup Tribe of Indians' Water Quality Standards
385	06/28/2013	Letter from Daniel Opalski, EPA, to Cynthia Iyall, Chair- Nisqually Indian Tribe, re: Invitation to Consult on the Final Draft NPDES Permit for Discharges from the JBLM MS4, Permit No. WAS-026638  Att 1: Final Draft JBLM MS4 Permit, dated June 2013 Att 2: Letter from FWS to EPA, dated 6/20/2013
386	06/28/2013	Letter from Daniel Opalski, EPA, to Herman Dillon, Chairman- Puyallup Tribe, re: Invitation to Consult on the Final Draft NPDES Permit for Discharges from the JBLM MS4, Permit No. WAS-026638  Att 1: Final Draft JBLM MS4 Permit, dated June 2013 Att 2: Letter from FWS to EPA, dated 6/20/2013
387	07/16/2013	Meeting notes from EPA discussion with Bill Sullivan and Char Naylor, Puyallup Tribe, re: JBLM MS4 Permit
<b>Public Notice Documents/Draft Permit</b>		
388	01/26/2012	Public Notice
389	01/26/2012	The News Tribune, Tacoma-Pierce County, WA. Affidavit of Publication
390	01/26/2012	Public Voucher for Advertising
391	01/26/2012	Postal Mailing List for Public Notice
392	01/26/2012	Draft JBLM MS4 Permit dated 1/2012
393	01/26/2012	Fact Sheet for JBLM MS4 Permit, dated 1/26/2012
394	01/31/2012	Email from Misha Vakoc, EPA, to Interested (External) Parties of the EPA Region 10 Stormwater Email List, re: EPA Region 10 Invites Comment on a Draft Municipal Stormwater Discharge Permit for JBLM, WA
395	1/31/2012	Press Release: EPA's proposed SW Permit for JBLM Incorporates LID to Protect Puget Sound
396	02/15/2012	Email from Jocelyn Jones, WDOE, to Interested (External) Parties of the WDOE Stormwater Email Listserve, re: Draft Municipal Stormwater Discharge Permit for JBLM, WA
397	02/2012	EPA Region 10 Focus Sheet: EPA Requests Comment on Draft Stormwater Permit for Joint Base Lewis McChord
<b>Public Meeting</b>		
398	03/15/2012	EPA Poster Boards for Public Meeting:  - Flow Duration Curve Interpretation

EPA Record Exhibit	Date	Document Description
		<ul style="list-style-type: none"> <li>- Performance Standard Results</li> <li>- Summary of EPA's Proposed Hydrologic Performance Standard Requirements (Permit Part II.B.5.e and 5.f)</li> </ul>
399	03/19/2012	Public Meeting Presentation, "Proposed NPDES Permit for Municipal Stormwater Discharges from JBLM"
400	03/19/2012	EPA Public Meeting Agenda
401	03/19/2012	EPA Public Meeting Sign In Sheet
<b>Correspondence After Comment Period</b>		
402	10/04/2012	<p>EPA's Draft Agenda/Discussion Items, Notes, and Documents provided by JBLM in response to EPA request:</p> <ul style="list-style-type: none"> <li>- Stormwater Wall map, McChord Field, 2012</li> <li>- Stormwater Wall map, JBLM-Main, 2012</li> <li>- Stormwater Features Inventory List</li> <li>- Sequelitchew Spring Source Water Protection Project, 2007</li> <li>- Oil Water Separator Map, McChord Field</li> <li>- McChord Oil Water Separator Master List</li> <li>- JBLM Oil/Water Separator Listing</li> </ul>
403	10/11/2012	<p>Email from Jennifer Smith, JBLM, to Misha Vakoc, EPA, re: Confirm meeting: EPA-NPDES and JBLM-DPW Staff Discussion re MS4 questions- 8:30am October 4 at EPA Region 10 08:09 AM-</p> <p>Att 1: Outfall No.4 Design Narrative. Stormwater Treatment Facility, Fort Lewis, WA Outfall No.4. April 2009. AHBL Project No. 207246.10, p. 1-6</p> <p>Att 2: Outfall No.4 Hydrologic Report. Stormwater Treatment Facility, Fort Lewis, WA Outfall No.4. April 2009. AHBL Project No. 207246.10 Contract No. W912DW-07-C-0025 PN 65933, p. 1-12</p>
404	3/21/2013	<p>Letter from Martin Burris, JBLM, to Misha Vakoc, EPA</p> <p>Att 1: AHBL. Outfall No.4 Design Narrative, Stormwater Treatment Facility, Fort Lewis, WA Outfall No.4, April 2009. AHBL Project No. 207246.10, Contract No. W912DW-07-C-0025 PN 65933</p> <p>Att 2: AHBL. Outfall No.4 Hydrologic Report, Stormwater Treatment Facility, Fort Lewis, WA Outfall No.4, April 2009. AHBL Project No. 207246.10, Contract No. W912DW-07-C-0025 PN 65933</p>
405	07/15/2013	Email from Misha Vakoc, EPA, to Martin Burris, et al., JBLM, re:



EPA Record Exhibit	Date	Document Description
		<p>Status Update on the pending NPDES permit for JBLM MS4 Discharges</p> <p>Att 1: JBLM NPDES Permit (containing email dated 6/20/2013 transmitting FWS Letter dated 6/20/2013 from FWS to EPA, re: Informal ESA Consultation- EPA Issuance of NPDES Permit No. WAS-026638, JBLM, Thurston and Pierce Counties, Washington)</p> <p>Att 2: 2013/10009 JBLM Discharge MS4 NPDES [Letter of Consultation] (containing email dated 7/12/2013 transmitting NOAA letter dated 7/12/2013 to EPA, re: ESA Section 7 Informal Consultation and Magnuson-Stevens Fishery Conservation and Management Act EFH Consultation for JBLM MS4 NPDES Authorization, Pierce County WA [6<sup>th</sup> Filed HUC 17110090304 Chambers Creek-Frontal Puget Sound])</p>
406	08/08/2013	<p>Notes from EPA Meeting with JBLM @ Puyallup Public Library</p> <p>Att 1: EPA letter to WDOE requesting 401 certification, dated June 7, 2013</p> <p>Att 2: Final Draft JBLM MS4 Permit, dated June 2013</p>
<b>Public Comment Received</b>		
407	03/20/2012	<p>Email from Don Russell to Misha Vakoc, EPA, re: Commentary on Joint Base Lewis -McChord NPDES Permit</p> <p>Att 1: Document, "Origin and History of the Diversion Canal" by Don Russell, dated 11/25/ 10</p> <p>Att 2: Electronic Photo of Diversion Canal "Diversion Canal @ S-D Rd.JPG"</p> <p>Att 3: Electronic Photo of Diversion Canal "DSC02006.JPG"</p> <p>Att 4: Electronic Photo of Diversion Canal "DSC02012.JPG"</p> <p>Att 5: Electronic Photo of Diversion Canal "DSC02644 - Copy.JPG"</p>
408	03/26/2012	<p>Letter from Ken Berg, FWS, to Michael Lidgard EPA, re: EPA Draft Permit No. WAS-026638 (NPDES Stormwater), JBLM, Thurston and Pierce Counties, Washington</p>
409	03/27/2012	<p>Email from Greg Vigoren, City of Lakewood, to Misha Vakoc, EPA, re: Lakewood's comments on JBLM NPDES Permit</p>
410	03/28/2012	<p>Email from Pierre Wilson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment</p>
411	03/28/2012	<p>Email from Janice Marshall, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment</p>
412	03/28/2012	<p>Letter from Robert Shirley, DoD Regional Environmental Coordinator</p>

EPA Record Exhibit	Date	Document Description
		Region 10, to Michael Bussell, EPA, re: EPA Region 10 MS4 Permit
413	03/28/2012	Email from Ze Little, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
414	03/28/2012	Email from Curtis Nichols, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
415	03/28/2012	Email from Derek Paul, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
416	03/28/2012	Email from Michelle Playter, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
417	03/28/2012	Email from Valerie Reeves, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
418	03/28/2012	Email from Patrick Sennello, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
419	3/28/2012	Email from Kathryn Stein, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
420	3/28/2012	Email from Ze Little, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
421	3/28/2012	Email from Luis Bernal, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
422	3/28/2012	Email from Peggy Bruton, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
423	3/28/2012	Email from Heather Carawan, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
424	3/28/2012	Email from Angela Coryell, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
425	3/28/2012	Email from Laurie Countryman, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
426	3/28/2012	Email from Stephen Eichelberger, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
427	3/28/2012	Email from Keith Evans, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
428	03/28/2012	Email from Jessica Henneck-Aguiar, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
429	03/28/2012	Email from Randi Kandar, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
430	03/28/2012	Email from Catherine Keys, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
431	03/28/2012	Email from Judith Langhans, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
432	03/29/2012	Email message from Dan Wrye, Pierce County, to Misha Vakoc, EPA, re: Pierce County Public Works and Utilities Comments on Draft

EPA Record Exhibit	Date	Document Description
		NPDES Municipal Stormwater Permit to JBLM  Att 1: 03/29/2012 Letter from Dan Wrye, Pierce County, to EPA, re: Pierce County Comments on Draft Stormwater Permit for JBLM
433	03/29/2012	Letter from Paul Steucke, Jr., JBLM, to Whom it May Concern, EPA  Att 1: JBLM comments on EPA's NPDES Permit WAS-026638 (MS4 permit)
434	03/29/2012	Email from June Brown, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
435	03/29/2012	Email from Jude Detloff, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
436	03/29/2012	Email from Robert Yoder, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
437	03/29/2012	Email from Louis Vestuto, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
438	03/29/2012	Email from Elyette Weinstein, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
439	03/29/2012	Email from Michael Winger, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
440	03/29/2012	Email from Jim Witte, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
441	03/29/2012	Email from Sunny Thompson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
442	03/29/2012	Email from Tory, Ann, Todd, and Kari Tjersland, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
443	03/29/2012	Email from Shannon Treen, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
444	03/29/2012	Email from John Van Eenwyk, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
445	03/29/2012	Email from Michele Saubidet, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
446	03/29/2012	Email from Michael Schramm, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
447	03/29/2012	Email from Shawn Wilson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
448	03/29/2012	Email from Ronda Snider, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
449	03/29/2012	Email from Bonnie Sobolewski, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
450	03/29/2012	Email from David Sparling, to Misha Vakoc, EPA, re: JBLM

EPA Record Exhibit	Date	Document Description
		Stormwater Permit Public Comment
451	03/29/2012	Email from Sean Tatol, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
452	03/29/2012	Email from Christine Mclean, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
453	03/29/2012	Email from Janet Myer, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
454	03/29/2012	Email from Julia Mirate, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
455	03/29/2012	Email from Thomas Miskovsky, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
456	03/29/2012	Email from John Peterson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
457	03/29/2012	Email from Shelby Philips, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
458	03/29/2012	Email from Kathryn Plitt, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
459	03/29/2012	Email from Marie Johantgen, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
460	03/29/2012	Email from Ashley Joppa-Hagemann, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
461	03/29/2012	Email from Summer Kozisek, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
462	03/29/2012	Email from Talia Kuykendall, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
463	03/29/2012	Email from Eileen Lamar, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
464	03/29/2012	Email from Pat Larson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
465	03/29/2012	Email from Mary McGovern, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
466	03/29/2012	Email from Ellen Mckinley, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
467	03/29/2012	Email from Russ Alarcon, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
468	03/29/2012	Email from Mary Bandura, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
469	03/29/2012	Email from Sean Boyd, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
470	03/29/2012	Email from Diane Bunting, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment

EPA Record Exhibit	Date	Document Description
471	03/29/2012	Email from Robyn Cleaves, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
472	03/29/2012	Email from Desdra Dawning, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
473	03/29/2012	Email from Felicity Devlin, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
474	03/29/2012	Email from Tom Dorosz, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
475	03/29/2012	Email from David Edwards, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
476	03/29/2012	Email from Marilyn Evanson, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
477	03/29/2012	Email from Gordon Hait, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
478	03/29/2012	Email from Joyce Hancock, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
479	03/29/2012	Email from Dena Harris, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
480	03/29/2012	Email from Michael and Barbara Hill, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
481	03/30/2012	Email from Howard Glastetter to Misha Vakoc, EPA, et al, re: JBLM Storm Water Permit
482	03/31/2012	Email from Ashley Alison, to Misha Vakoc, EPA, re: JBLM Stormwater Permit Public Comment
		<b>Final Permit Documents</b>
483	08/22/2013	JBLM MS4 Permit, Response to Comments
484	08/22/2013	Final JBLM MS4 Permit
485	08/26/2013	Letter from Daniel Opalski, EPA, to Paul Steucke, Jr., JBLM, re: JBLM MS4, NPDES Permit No. WAS-026638, signed 8/22/2013  Att 1: Final Permit for JBLM MS4 Att 2: JBLM MS4 - Response to Comments
486	08/26/2013	Letter from Daniel Opalski, EPA, to Deborah Cornett, WDOE, re: JBLM MS4, NPDES Permit No.WAS-026638, signed 8/22/2013  Att 1: Final NPDES Permit for JBLM MS4 Att 2: JBLM MS4 - Response to Comments
487	08/26/2013	Notification Announcement from Daniel Opalski, EPA, to Greg Vigoren, City of Lakewood, re: EPA's Issuance of NPDES Permit No.WAS-026638, JBLM MS4
488	08/26/2013	Notification Announcement from Daniel Opalski, EPA, to Dan Wrye,

EPA Record Exhibit	Date	Document Description
		Pierce County Public Works and Utilities, re: EPA's Issuance of NPDES Permit No.WAS-026638, JBLM MS4
489	08/26/2013	Notification Announcement from Daniel Opalski, EPA, to Robert Shirley, DoD, re: EPA's Issuance of NPDES Permit No.WAS-026638, JBLM MS4
490	08/26/2013	Notification Letter from Daniel Opalski, EPA, to Commenters, re: EPA's Issuance of NPDES Permit No.WAS-026638 JBLM MS4
491	08/27/2013	Email from Misha Vakoc, EPA, to 'information@sierraclub.org', et al: re: Final NPDES Permit No. WAS-026638 Issued for the JBLM MS4  Att 1: Notification from EPA to Commenters dated 08/26/2013
492	8/27/2013	Email from Misha Vakoc, EPA, to Howard Glastetter, re: Final NPDES Permit No.WAS-026638 Issued for the JBLM MS4  Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Notification from EPA to Commenters dated 08/26/2013
493	08/27/2013	Email from Misha Vakoc, EPA, to Don Russell, re: Transmittal of Final NPDES Permit No.WAS-026638 (JBLM MS4)  Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Notification from EPA to Don Russell dated 08/26/2013
494	08/27/2013	Email from Misha Vakoc, EPA, to Paul Steucke, Jr., JBLM, re: Transmittal of Final NPDES Permit No.WAS-026638 (JBLM MS4) as posted on August 26, 2013  Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Letter from EPA to JBLM, dated 08/26/2013
495	08/27/2013	Email from Misha Vakoc, EPA, to Robert Shirley, DoD, re: Transmittal of NPDES Permit No.WAS-026638 (JBLM MS4) as posted on August 26, 2013  Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Notification from EPA to DoD dated 08/26/2013
496	08/27/2013	Email from Misha Vakoc, EPA, to Greg Vigoren, City of Lakewood, re: Final NPDES Permit No.WAS-026638 Issued for the JBLM MS4

EPA Record Exhibit	Date	Document Description
		Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Notification from EPA to City of Lakewood dated 08/26/2013
497	08/27/2013	Email from Misha Vakoc, EPA, to Dan Wrye, Pierce County, re: Final NPDES Permit No.WAS-026638 Issued for the JBLM MS4  Att 1: Final JBLM MS4 Permit Att 2: JBLM MS4 - Response to Comments Att 3: Notification from EPA to Pierce County dated 08/26/2013
498	08/28/2013	Email from Dan Wrye, Pierce County, to Misha Vakoc, EPA, re: Final NPDES Permit No.WAS-026638 Issued for the JBLM MS4

## **ACRONYMS**

AFB:	AFB
BE:	Biological Evaluation
BMP:	Best Management Practices
CD:	Compact Disc
CWA:	Clean Water Act
DPS:	Distinct Population Segment
DPW:	Directorate of Public Works
DoD:	U.S. Department of Defense
EFH:	Essential Fish Habitat
EISA:	Energy Independence and Security Act
EPA or USEPA:	U.S. Environmental Protection Agency
ESA:	Endangered Species Act
ESU:	Evolutionarily Significant Unit
FMP:	Fisheries Management Plan
FWS or USFWS:	U.S. Fish and Wildlife Service
HUC:	Hydrologic Unit Code
JBLM:	Joint Base Lewis-McChord
LID:	Low Impact Development
MS4:	Municipal Separate Storm Sewer System
MSGP:	Multi-Sector General Permit
NMFS:	National Marine Fisheries Service
NOAA:	National Oceanic and Atmospheric Administration
NPDES:	National Pollutant Discharge Elimination System
USACOE:	United States Army Corps of Engineers
USFWS:	United States Fish and Wildlife Service
US:	United States
USDA:	U.S. Department of Agriculture
WDOE:	Washington Department of Ecology
WDFW:	Washington Department of Fish and Wildlife
WRIA:	Water Resource Inventory Area



**CERTIFICATE OF SERVICE**

I certify that the foregoing "Certification of Index to Administrative Record and Administrative Record Index" was sent to the following persons, in the manner specified, on the date below:

By electronic filing to:

Clerk of the Board  
U.S. Environmental Protection Agency  
Environmental Appeals Board  
1200 Pennsylvania Avenue, NW  
Mail Code 1103M  
Washington, DC 20460-0001

By electronic and U.S. Mail to:

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Department of the Army  
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Fort Belvoir, VA 22060  
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DATED: January 15, 2014



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U.S. EPA, Region 10