



Alaska Pollutant Discharge Elimination System (APDES) Program

Capacity Building Summary July 2012

INTRODUCTION

On October 31, 2008, the U.S. Environmental Protection Agency (EPA) approved the State of Alaska's application to assume permitting and compliance and enforcement authority for wastewater discharges under the Clean Water Act. Alaska's program is called the Alaska Pollutant Discharge Elimination System (APDES) Program. Program authority was transferred from EPA to the Alaska Department of Environmental Conservation (ADEC) in four phases over a four year period.

On October 31, 2008, the Alaska Department of Environmental Conservation (ADEC) began implementation of Phase I, which includes domestic discharges, log storage facilities, seafood processing facilities, and hatcheries. ADEC began implementation of Phase II on October 31, 2009, including assumption of authority for federal facilities, storm water program, pretreatment program, and miscellaneous nondomestic discharges. On October 31, 2010, ADEC began implementation of Phase III, mining operations. The fourth and final phase of the transfer of authority was scheduled for October 31, 2011 and includes the oil and gas industry, munitions, cooling water intakes and discharges, and pesticides. In March of 2011, ADEC proposed an extension of the Phase IV transfer of one year. In July of 2011, EPA agreed to a one year extension of transfer. The transfer of Phase IV on October 31, 2012 will complete full NPDES program authority transfer from EPA to DEC.

ADEC and EPA developed a Capacity Building Plan to ensure staff are qualified and trained to implement the APDES Program. ADEC is actively building technical and professional capacity within the agency. Biannual summaries highlight the capacity building efforts for six-month periods that correspond with the first and second halves of the state fiscal year. The summary will be updated in July and January of each year until full authority to implement the APDES Program transfers to the state.

APDES PROGRAM HIGHLIGHTS – January 1, 2012 – June 30, 2012

APDES program managers continued to implement Phases I - III and continued planning for Phase IV transfer.

During this reporting period, ADEC issued two APDES individual permits and one APDES general permit. Additionally, ADEC issued 31 authorizations under an APDES general permit. ADEC issued eight authorizations under an EPA issued NPDES general permit. ADEC did not finalize any 401 certifications for EPA issued individual or general permits, as none were requested by EPA during this reporting period.

ADEC is currently drafting 13 individual permits, 11 general permits, and four storm water municipal separate storm sewer system (MS4) permits. ADEC intends to public notice the permits currently being drafting during the next reporting period.

EPA and ADEC continue to participate in monthly teleconference and quarterly in-person meetings between managers and permitting staff to discuss the permitting process and status of draft permits. In August 2011, an ADEC-EPA permit review process was finalized that identifies each agency's role and the timelines for reviewing permits. The ADEC web page continues to be updated with additional forms and applications made available to permittees and the public.

The flow of Discharge Monitoring Report (DMR) data from ADEC's permit tracking system to EPA's data system is occurring. DMR data from facilities were flowing routinely in June 2012, with facility data being added to the flow every month.

APDES PROGRAM CAPACITY BUILDING WILL CONTINUE IN 2012

During the next six months, ADEC will:

- Recruit and fill vacancies for a Permit Unit Section Manager, Environmental Program Specialist, and Engineer Associate I.
- Continue to update web pages so information is more accessible to the public and permittees.
- Continue to develop Internet-based online application tools.
- Work with EPA Region 10 to implement the [Clean Water Act Action Plan](#).
- Provide mixing zone modeling training to Wastewater Discharge Authorization Program staff.
- Provide updates and information regarding the APDES program at conferences.
- Develop cross-cultural training curriculum and reference materials for Wastewater Discharge Authorization Program staff as part of the State Environmental Justice Cooperative Agreement grant (SEJCA).

- Develop Division of Water and APDES capacity building and outreach materials for tribal and rural governments as part of the SEJCA grant.
- Develop a regional tribal and rural community directory for Wastewater Discharge Authorization Program staff as part of the SEJCA grant.

Phases I, II, and III Implementation

- Continue training compliance and enforcement staff on storm water inspections and implementation of best management practices.
- Participate in an EPA work group to track the development of new storm water regulations.
- Continue processing Phase I, II, and III permits.
 - See ADEC Permit Issuance Plan (PIP)
<http://dec.alaska.gov/water/wwdp/pdfs/PIP.pdf>
- Provide draft Clean Water Act section 401 certifications for EPA-drafted NPDES permits upon request from EPA:
 - Beaufort Sea Oil and Gas Exploration
 - ENI US Operating Co., Inc
 - Alyeska Pipeline Valdez Marine Terminal
 - Vessel General Permit
 - Small-vessel General Permit

Phase IV Preparation

During the next six months, ADEC plans to:

- Meet with EPA Region 10 to coordinate a smooth Phase IV transfer of authority.
- Continue to direct staff to attend training on technical issues specific to oil and gas.
- Continue to participate in Shale Oil Task Force.
- Continue to participate in team meetings and track EPA's development of the Beaufort Oil and Gas General Permit.
- Continue to coordinate with EPA on the Beaufort Sea Oil and Gas general permit to facilitate stakeholder involvement and timely permit issuance.
- Continue to coordinate with EPA to ensure consistency between the federal and state Cook Inlet Oil and Gas Exploration General Permits and facilitate timely permit issuance.
- Draft the 401 certification for Alyeska Pipeline Valdez Marine Terminal permit (Final certification in October 2012).
- Draft the 401 certification for the Beaufort Sea Oil and Gas General Permit (Final certification in October 2012).
- Strengthen ties with DNR Oil and Gas Division and Coastal and Ocean Management to ensure that new oil and gas projects are aware of permitting requirements.

- Identify staff to attend planning meetings for projects in new state and federal lease areas that may require discharge permits.
- Attend public meetings and hearings with EPA for Beaufort Sea Oil and Gas General Permit.
- Host an APDES Orientation for Phase IV permittees.
- Attend the Alaska Oil and Gas Congress.
- Attend Rocky Mountain Mineral Law Foundation Conference on Water–Energy Nexus; Acquisition, Use, and Disposal of Water for Energy & Mineral Development.

I. PERMITTING

ADEC updated the Permit Issuance Plan identifying the permits intended to be issued in 2012- 2013. The Permit Issuance Plan is available on ADEC's website at <http://dec.alaska.gov/water/wwdp/pdfs/PIP.pdf>.

The tables below summarize the certifications, permits, and authorizations ADEC issued annually and bi-annually by calendar year. At the time of this summary report, an additional 22 APDES permits were either in the process of being developed or undergoing internal review, and two permits were public noticed.

Annual Summary – ADEC- Issued Certificates, Permits, and Authorizations							
Type of Issuance	1-Jan-06 -	1-Jan-07 -	1-Jan-08 -	1-Jan-09 -	1-Jan-10 -	1-Jan-11 -	1-Jan-12 -
	31-Dec-06	31-Dec-07	31-Dec-08 ^a	31-Dec-09 ^b	31-Dec-10	31-Dec-11	31-Dec-12
ADEC Issuances under NPDES							
401 Certifications of EPA-Issued NPDES IPs ^c	5	3	7	3	2	4	
401 Certifications of EPA-Issued NPDES GPs ^d	1	3	0	0	0	3	
Authorizations under NPDES GPs	68	35	29	8	27	21	
ADEC Issuances under APDES							
APDES IPs	NA ^e	NA	0	3	3	6	
APDES GPs	NA	NA	0	1	0	3	
Authorizations under APDES GPs	NA	NA	0	105	0	0	
Mechanical Placer Mine Authorizations	NA	NA	NA	NA	0	0	
Medium Suction Dredge Placer Mine Authorizations	NA	NA	NA	NA	0	73	
Small Suction Dredge Placer Mine Authorizations	NA	NA	NA	NA	0	1100	
Construction Storm Water Authorizations	NA	NA	NA	18	557	795	
MSGP Storm Water Authorizations	NA	NA	NA	7	43	36	
ADEC State Permits and Authorizations ^g							
State IPs	17	10	3	0	1	0	
State GPs	0	1	1	0	0	1	
Authorizations under GPs	60	52	36	11	31	37	
Total	151	104	76	156	664	2079	
<p>Note: This table is updated annually at the end of each calendar year.</p> <p>a) ADEC's Primacy application was approved by EPA on October 31, 2008. No APDES permits were issued in November or December 2008.</p> <p>b) Permit/authorization issuances for this period corrected from the previous Capacity Building Summary.</p> <p>c) IP = Individual Permit</p> <p>d) GP = General Permit</p> <p>e) NA = Not applicable</p> <p>f) Includes discharges to surface water, land, and underground injection control.</p> <p>g) ADEC issues approximately 1100 new authorizations under the small suction dredge placer mining general permit per year. The number of authorizations varies year to year depending on the interest in recreational gold mining.</p>							

See Appendix A for bi-annual summaries from January 2006 – December 2008.

Bi-Annual Summary – ADEC- Issued Certificates, Permits, and Authorizations								
Type of Issuance	1-Jan-09 -	1-Jul-09 -	1-Jan-10 -	1-Jul-10 -	1-Jan-11 -	1-Jul-11 -	1-Jan-12 -	1-Jul-12 -
	30-Jun-09	31-Dec-09 ^b	30-Jun-10	31-Dec-10	30-Jun-11	31-Dec-11	30-Jun-12	31-Dec-12
ADEC Issuances under NPDES								
401 Certifications of EPA-Issued NPDES IPs ^c	0	3	0	2	3	1	0	
401 Certifications of EPA-Issued NPDES GPs ^d	0	0	0	0	0	3	0	
Authorizations under NPDES GPs	7	1	12	15	21	0	8	
ADEC Issuances under APDES								
APDES IPs	0	3	2	1	4	2	2	
APDES GPs	0	1	0	0	2	1	1	
Authorizations under APDES GPs	86	19	0	0	0	0	31	
Mechanical Placer Mine Authorizations	NA ^e	NA	0	0	0	0	0	
Medium Suction Dredge Placer Mine Authorizations	NA	NA	0	0	0	73	0	
Small Suction Dredge Placer Mine Authorizations	NA	NA	0	0	0	1100	0	
Construction Storm Water Authorizations	NA	18	336	221	329	466	245	
MSGP Storm Water Authorizations	NA	7	27	16	17	19	27	
ADEC State Permits and Authorizations ^g								
State IPs	0	0	0	1	0	0	2	
State GPs	0	0	0	0	1	0	2	
Authorizations under GPs	2	9	16	15	28	9	41	
Total	95	61	393	271	405	1674	360	
<p>a) ADEC's Primacy application was approved by EPA on October 31, 2008. No APDES permits were issued in November or December 2008.</p> <p>b) Permit/authorization issuances for this period corrected from the previous Capacity Building Summary.</p> <p>c) IP = Individual Permit</p> <p>d) GP = General Permit</p> <p>e) NA = Not applicable</p> <p>f) Includes discharges to surface water, land, and underground injection control.</p> <p>g) ADEC issues approximately 1100 new authorizations under the small suction dredge placer mining general permit per year. The number of authorizations varies year to year depending on the interest in recreational gold mining.</p>								

II. COMPLIANCE AND ENFORCEMENT ACTIVITIES

A. Inspector and Enforcement Credentials

State Credentials

Several ADEC staff have State issued credentials. The Wastewater Discharge Authorization Program includes four staff members with current Enforcement Officer credentials. The Compliance and Enforcement Program includes four staff members with current Enforcement Officer credentials and five staff members with current Inspector credentials.

EPA Credentials

ADEC is no longer pursuing EPA Inspector credentials for staff in the Compliance and Enforcement Program, because ADEC is now the permitting and compliance authority for all but Phase IV facilities. No staff currently have EPA Inspector credentials.

B. Monitoring and Inspections

Prior to the Division of Water's reorganization in July 2007, ADEC staff conducted both permitting and compliance work within a single program. Staff in this program gained many years' experience with compliance monitoring, inspections, and enforcement. With the Division of Water's reorganization in July 2007, a Compliance and Enforcement program was formed. Compliance and enforcement staff perform all inspections of APDES facilities.

ADEC staff review discharge monitoring reports for facilities issued an EPA NPDES permit and ADEC-issued APDES permits, as well as for facilities issued a state permit, and review quarterly and annual reports from dischargers (e.g. seafood processors, log transfer facilities, and mines). An Inspection Ranking Model is used as a guide to prioritize and schedule on-site inspections. Inspections are also conducted during routine or unscheduled visits to sites and facilities, in response to citizen complaints, and of unpermitted facilities.

Compliance and enforcement staff issued 30 Notices of Violation, 35 compliance letters, and one formal enforcement action during the State fiscal year 2012.

The table below provides a summary of the number of inspections conducted by ADEC.

ADEC Inspections Conducted								
Facilities	1/1/06 - 12/31/06	1/1/07 - 12/31/07	1/1/08 - 12/31/08	1/1/09 - 12/31/09	1/1/10 - 12/31/10	1/1/11 - 6/30/11	7/1/11 - 12/31/11	1/1/12 - 6/30/12
APDES permitted facilities	NA ^a	NA	NA	73	129	63	82	67
NPDES permitted facilities	56	36	24	27	4	1	0	0
State permitted facilities ^b	42	62	43	12	7	1	3	2
Total	98	98	67	112	140	65	85	69
Notes:								
a. NA – not applicable								
b. Inspections at state permitted facilities include unpermitted facilities, as well as facilities under state jurisdiction only								

III. TRAINING

Formal Training

Individual staff participated in training specific to their areas of responsibility during the six months covered in this summary.

The table below provides a summary of the formal training received by staff in six month time periods since APDES Program approval.

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
January 1, 2012- June 30, 2012			
Feb 26-Mar 2, 2012	1	International Erosion Control Association (IECA) Annual Conference	IECA
March 6, 2012	3	Present Like a Pro	Guila Muir and Associates
March 8, 2012	8	Meetings that Work: The Art of Facilitation	Guila Muir and Associates
March 12-14, 2012	26	EPA Water Quality Standards Academy	EPA, Tetrattech, and DEC
March 13-16, 2012	1	CWA/NPDES National Technical Inspector Workshop	EPA HQ and Regions
March 14, 2012	2	eDMR Mentoring Session	EPA
March 15, 2012	30	Total Maximum Daily Loads (TMDLs) Training	DEC

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
March 21, 2012	2	NetDMR Regulatory Training	EPA
March 29, 2012	3	Electronic Reporting Rule	EPA
April 18, 2012	33	Cross-cultural Awareness and Communication	DEC, with guest speakers
April 19, 2012	29	Tribal Communications Protocol Training	DEC, in partnership with Yukon Kuskokwim Tribes
April 27, 2012	1	Introduction to Alaska Small Wastewater Systems	NTL Alaska, Inc.
May 3, 2012	2	Writing in the Workplace: the Basic Course	Jim Hale
May 4, 2012	2	Analytical Writing: How to Think and Write at the Same Time	Jim Hale
May 29-Jun 1, 2012	1	Exchange Network National 2012 Meeting	Exchange Network Leadership Council
June 5, 2012	2	Project Management	Fred Pryor Seminars
July 1, 2011 - December 31, 2011			
Sept. 6-8, 2011	2	Statistical Analysis of Groundwater Monitoring Data	Northwest Environmental Training Center
Sept. 19-23, 2011	36	USEPA NPDES Permit Writers' Course	EPA and Tetratech
Oct. 15-19, 2011	2	Water Environment Federation Technical Exhibition and Conference	Water Environment Federation
Oct. 25-27, 2011	14	Basic Environmental Investigations	Western States Project and ADEC
Oct. 31–Nov. 4, 2011	1	Introduction to Alaska Small Wastewater Systems	NTL Alaska, Inc.
Nov. 8-11, 2011	6	Alaska Miners Association 2011 Convention, Anchorage	Alaska Miners Association
November 10, 2011	4	Mat-Su Salmon Science and Conservation Symposium	Mat-Su Basin Salmon Habitat Partnership
December 2, 2011	3	Analytical Writing: How to Think and Write at the Same Time	Jim Hale
December 9, 2011	2	The Art of Facilitation – Meetings that Work	Guilla Muir and Associates
January 1, 2011 – June 30, 2011			
January 19, 2011	25	Update on the Alaska Pollutant Discharge Elimination System, with a focus on Stormwater presented at the Alaska Association of Environmental Professionals meeting	William Ashton
January 26, 2011	2	Wastewater: Treatment and Regulations presented at the DEC 2011 Drinking Water Engineer's Annual Meeting	Jim MacInnis, P.E.
January 31, 2011	1	Clean Water Act with a focus on Stormwater	William Ashton
Jan 31-Feb 4, 2011	2	NPDES Permit Writer's Course	EPA and Tetratech
February 3-4, 2011	4	Troubleshooting for Wastewater Lagoons	Alaska Rural Water Association
March 1-3, 2011	2	Alaska Pipeline Project Technical Workshop	Alaska Pipeline Project

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
March 3-5, 2011	1	Strengthening Institutions: Strategies for cooperative management in the marine environment of the Beaufort and Chukchi Seas Workshop	University of Alaska
March 7-11, 2011	1	Academy for Supervisors	State of Alaska
March 15, 2011	3	Oil & Gas 101: ConocoPhillips Alaska Overview	ConocoPhillips Alaska
March 22-23, 2011	1	ICIS-NPDES data entry	Amber Bennett, DEC
April 4-6, 2011	2	Alaska Water Resources Association 2011 Annual Conference	Alaska Water Resources Association
April 8, 2011	2	Writing for the Workplace	Jim Hale
April 15, 21, 28 and May 3,5,6,12, 2011	1	Defining Risk in Arctic Coastal and Offshore Resource Development: Perspectives and International Standards	University of Alaska North by 2020 Forum
April 28, 2011	5	Project Management for Capital Projects	ConocoPhillips
May 10-12, 2011	5	Northern Latitudes Mining Reclamation Workshop	DNR Mining Land and Water
May 11, 2011	6	Short Course on Mitigation of Metal Leaching and Acid Rock Drainage	William Price - CANMET
May 17, 2011	2	Breaking Through Conflict	Glaser & Associates, Inc
May 25-26, 2011	3	Technical Presentation of Underground Coal Gasification	LINC Energy
June 8, 2011	1	Invasive Species Training	Alaska Natural Heritage Program
June 14-15, 2011	5	Offshore Discharge Criteria Evaluation for Chukchi and Beaufort Seas	EPA Region 10
June 14-15, 2011	2	CORMIX training	Portland State University
June 28-30, 2011	32	Whole Effluent Toxicity Training	EPA and Tetrattech
June 29, 2011	1	Meetings that Work: The Art of Facilitation	Guila Muir
July 1, 2010 – December 31, 2010			
July 7, 2010	1	Cultural Awareness Workshop, Anchorage	Alaska Native Heritage Center
September 16, 2010	2	Technical Writing, Anchorage	Professional Writing Workshops
September 27, 2010	1	Pesticides General Permit Meeting, Washington, D.C.	EPA Headquarters
October 26, 2010	1	Alaska Association of Harbormasters and Port Administrators 2010 Conference, Wrangell	Alaska Association of Harbormasters and Port Administrators
October 26, 2010	2	UAA School of Engineering Graduate Certificate program for Environmental Regulation and Permitting, Anchorage	University of Alaska-Anchorage
October 27, 2010	21	Pretreatment Program, Anchorage	DEC and EPA Region 10
October 28, 2010	18	Advanced Permit Writers' Training, Anchorage	DEC and EPA Region 10
November 1-2, 2010	1	Second International Congress on Seafood Technology, Anchorage	University of Alaska-Anchorage
November 1-2, 2010	2	CORMIX Mixing Zone Model: CORMIX Training, Portland,	MixZon, Inc.

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
November 3-5, 2010	5	Alaska Miners Association 2010 Convention, Anchorage	Alaska Miners Association
November 1-5, 2010	8	Introduction to the Clean Water Act, Webcast	EPA
January 1, 2010 – June 30, 2010			
January – June, 2010	2	UAA School of Engineering Graduate Certificate program for Environmental Regulation and Permitting, Anchorage	University of Alaska-Anchorage
May 12, 2010	21	Pretreatment Program, Anchorage	DEC and EPA Region 10
May 13, 2010	18	Advanced Permit Writers' Training, Anchorage	DEC and EPA Region 10
May 10-13, 2010	1	Second International Congress on Seafood Technology, Anchorage	University of Alaska-Anchorage
June 15-16, 2010	2	CORMIX Mixing Zone Model: CORMIX Training, Portland,	MixZon, Inc.
July 1, 2009 – December 31, 2009			
July 27-31, 2009	3	ICIS & PCS National Conference, McLean, VA	EPA
August - December 2009	1	Environmental Law, Regulations, and Permitting, Anchorage	University of Alaska Anchorage
August 18-20, 2009	1	Community Involvement Training Conference 2009, Seattle	EPA
August 19, 2009	1	Using Collaboration to Overcome Barriers, Seattle	EPA
August 20, 2009	1	Overcoming Barriers to Effective Community Involvement: A Citizen Participant, Seattle	EPA
August 20, 2009	1	Cultural Sensitivity Training: Opportunities to Connect with Native American Communities, Seattle	EPA
August 24-25, 2009	2	Mining Workshop, Anchorage	U.S. Forest Service
August 31, 2009	2	Basic Regulations Class for State Agencies, Juneau	AK Depart. of Law
September 14, 2009	3	Introduction to Media, Juneau and Anchorage	ADEC
September 21-24, 2009	?	Pretreatment Workshop, Kenai, Seward, and Soldotna	Tetra Tech
October 5, 2009	34	Writing for the Workplace, Anchorage	Professional Writing Workshops
October 5-7, 2009	?	Introduction to Environmental Law Enforcement, Anchorage	Western States Project
October 6, 2009	42	2009 APDES Implementation Workshop, Anchorage	ADEC
October 8, 2009	24	Environmental Justice Workshop, Anchorage and Fairbanks	EPA Region 10
October 9, 2009	6	Tactical Communications/Verbal Judo, Anchorage	Western States Project

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
November 2-6, 2009	1	Introduction to Small Wastewater Systems (Collection and Treatment Provisional Certification), Fairbanks	Alaska Technical/ Training Assistance Center
November 2-6, 2009	3	Alaska Miners Association Conference, Anchorage	Alaska Miners Association
December 2-3, 2009	11	Conference on Water Quality Standard Antidegradation Policy, Anchorage	ADEC
January 1, 2009 – June 30, 2009			
January 14-15, 2009	1	Pacific Ballast Water Group Meeting: Vessel ballast water discharge; EPA Vessel General Permit, Seattle	Pacific Ballast Water Group
February 5, 2009	1	Current Issues in Storm water Regulation, Anchorage	Lorman Educational Services
February 10, 2009	12	MS Word/Excel 2007	Vocational Training & Resource Center
February 17, 2009	4	Navigating the Discharge Results and Online Permit System (DROPS)	ADEC
March-April, 2009	28	Positive Leadership-Inclusive Management, Anchorage, Fairbanks, Juneau	ADEC
April 2, 2009	4	Storm water Management in Juneau: State Primacy, Municipal Programs, and Public Outreach	ADEC & City-Borough of Juneau
April 6–10, 2009	2	USEPA NPDES Permit Writers' Course, Portland	EPA
April 27- 30, 2009	16	Mixing Zone Modeling Training (CORMIX), Anchorage	MixZon, Inc.
June 10–11, 2009	2	Forum on Surface Discharging Wastewater Systems, Chicago	EPA
June 23, 2009	2	Peer to Supervisor Management Training Workshop	State of Alaska
July 1, 2008 – December 31, 2008			
July 6–10, 2008	1	EPA NPDES Permit Writers' Conference, WV	EPA
August 7, 2008	10	Quality Assurance and Quality Control	ADEC
August 18–20, 2008	1	Association of State and Interstate Water Pollution Control Agencies (ASIWPCA) annual meeting, Providence, RI	ASIWPCA
August 18-21, 2008	1	National Pretreatment Coordinators Meeting, Charleston, WV	EPA
September 3-5, 2008	5	Applied Hydrogeologic Site Characterization & Monitoring Well Construction for Environmental Professionals	Northwest Environmental Training Ctr.
September 9-11, 2008	1	Region 10 Pretreatment Coordinators meeting, Vancouver, WA	EPA Region 10
October 14-15, 2008	50	APDES Implementation Workshop. Training for permitting, compliance and enforcement, and administrative program managers and staff in preparation for Primacy. Anchorage	ADEC
October 17-23, 2008	1	Tailings and Mine Waste '08 conference and workshop	Colorado State University
October 17-24, 2008	1	WEFTEC Annual Technical Exhibition and Conference, Chicago	Water Environment Federation
October 26-28, 2008	2	State Review Framework, Seattle, WA	EPA Region 10
October 26-29, 2008	2	Introduction to Criminal Environmental Investigations, Salt	Western States Project

FORMAL TRAINING			
DATE(S)	STAFF	COURSE / WORKSHOP TITLE	PROVIDER
		Lake City, UT	
October 27-31, 2008	2	USEPA NPDES Permit Writers' Course, VA	EPA
November 14, 2008	1	Introduction to Storm water Treatment	Municipality of Anchorage
November 20-21, 2008	2	Storm water Treatment: Designing to Meet Performance Goals	Resource Planning Associates
January 1, 2008 – June 30, 2008			
March 3-5, 2008	6	BEN/ABLE Training	National Environmental Training Institute
March 2008	41	Welding Regulatory Discretion	ADEC
March 10, 2008	9	CPR/First Aid	Red Cross
March 11-13, 2008	32	Systematic Development of Informed Consent	Institute for Participatory Magmt/Planning
March 21, 2008	17	Writing for the Workplace	Jim Hale
March 25-28, 2008	1	Environmental Chemistry	Northwest Environmental Training Ctr.
April 14-15, 2008	4	Certified Erosion & Sediment Control Lead Course, Anchorage	Assoc. General Contractors
April 22-25, 2008	36	Facilities and Inspector training – Phase I. Training to inspect Phase I facilities scheduled to transfer to ADEC: domestic wastewater, log transfer facilities, seafood processing, and hatcheries.	ADEC
June 3-4, 2008	4	Storm water Training	ADEC/DOTPF
July 1, 2007 – December 31, 2007			
October 2007	24	Introduction to Criminal Investigations	Western States Hazardous Waste Project
October 29, 2007	1	ICIS-NPDES and Reporting – Data Steward participated in this training with EPA Region 10 staff in Seattle.	EPA
December 4, 2007	35	Water Division Cross Program Training – Staff from Wastewater Discharge, Village Safe Water, Remote Maintenance Workers, Municipal Grants/Loans, and Compliance Program. NPDES Primacy included in training.	
January 1, 2006 – June 30, 2007			
April 2006	39	Basic Inspector Training Course	EPA
May 2006	35	USEPA NPDES Permit Writers' Course	EPA
February 2007	41	Water Quality Standards Academy	EPA
February 2007	2	NPDES Technical Inspector training	EPA
March 2007	1	Mixing Zone Modeling Training (CORMIX)	Portland State University
April 2007	17	Statistical Applications for Natural Conditions Water Quality Standard	ADEC/Tetra Tech
April 11 – 12, 2007	2	Soil Erosion Control Training	Int'l Erosion Control Assn

Informal Training

Training in the use of the APDES data management system is provided to new staff during orientation, and desk side training is available to all staff on an as-needed basis.

Cross training the permitting and compliance and enforcement staff is ongoing and will continue.

IV. WORK SHARE AGREEMENTS AND PARTNERSHIPS

No formal work share agreements or partnerships were formed during this reporting period; however, DEC and EPA Region 10 staff entered into one informal work share agreement. In preparation for the Phase IV transfer of authority, EPA and ADEC permit writers will work together to reissue a NPDES general permit for Cook Inlet Oil and Gas Exploration.

V. Intergovernmental Personal Agreements and Job Shadows

ADEC uses Intergovernmental Personal Agreements (IPAs) and Job Shadows to enhance training for staff. None were initiated during this reporting period (January-June, 2012). Three job shadows are reported for the next reporting period (July-December, 2012).

INTERPERSONAL AGREEMENTS (IPAs) & JOB SHADOWING			
DATE(S)	LOCATION	STAFF / MISSION(S)	PROVIDER
JANUARY 1, 2012 – DECEMBER, 2012			
October 2012	Dutch Harbor	One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at two shore based seafood processing facilities operating under an EPA consent decree and at 12 offshore processing vessels operating under the EPA offshore seafood processing GP.	EPA Region 10
September 2012	North Slope	One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at oil and gas platforms.	EPA Region 10
July 2012	North Slope	One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at oil and gas production facilities.	EPA Region 10
JANUARY 1, 2011 – DECEMBER 31, 2011			
August 2011	Cook Inlet	One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at oil and gas platforms.	EPA Region 10
JANUARY 1, 2009 – DECEMBER 31, 2009			
June 2009	North Pole	One ADEC staff job shadowed with EPA compliance and enforcement staff on pretreatment program.	EPA Region 10
JANUARY 1, 2008 – DECEMBER 31, 2008			
February 2008	Seattle	One DEC staff worked with EPA on seafood processing permits.	EPA Region 10
April 2008	Anchorage/Mat-Su	One DEC staff accompanied EPA inspectors on construction general permit compliance inspections in Anchorage/Matanuska-Susitna Borough	EPA Region 10
October 27-31, 2008	Seattle	One DEC staff job shadowed EPA staff to gain experience with ICIS-NPDES and RIDE requirements.	EPA Region 10
JANUARY 1, 2007 – DECEMBER 31, 2007			
February 2007 - February 2008	Anchorage	Loaner staff located in Anchorage Division of Water for 11.5 months: advice/direction to help develop compliance and enforcement standard operating procedures.	Minnesota Pollution Control Agency
May 2007	Idaho	One DEC staff job shadowed with EPA during inspections at 15 Idaho facilities.	EPA Region 10

INTERPERSONAL AGREEMENTS (IPAs) & JOB SHADOWING			
DATE(S)	LOCATION	STAFF / MISSION(S)	PROVIDER
JANUARY 1, 2006 – DECEMBER 31, 2006			
November 2006	Washington	One DEC staff job shadowed in the storm water program conducting and documenting inspections and technologies. 2 weeks. Presented training/results to staff upon return.	WA Dept of Ecology
November 2006 - November 2007	Anchorage	IPA: developed Reasonable Potential Analysis guidance, reviewed/commented on NPDES application, reviewed/interpreted federal regulations.	EPA Region 8
Fall 2006	Anchorage	Loaner staff: accompanied staff on inspections of construction sites for compliance with storm water general permit, guidance on inspection report writing.	WA Dept of Ecology
Winter 2006 - Spring 2007	Fairbanks	Loaner staff: drafted Inspection Guidance for staff, NPDES permit writing training.	WI Dept. Natural Resources

VI. APDES PROGRAM OUTREACH

ADEC continues to provide outreach on the APDES program to the regulated community and the general public. Outreach included presentations to federal and state agencies, municipalities, professional organizations, and students.

APDES PROGRAM OUTREACH		
Date	Event	Topic
JANUARY 1, 2012 – JUNE 30, 2012		
January 12, 2012	Yukon River Inter-Tribal Watershed Council (YRITWC)/DEC Meeting	YRITWC's environmental monitoring programs, community outreach efforts, and ways to improve coordination
January 25, 2012	Association of Clean Water Administrators (ACWA) Permitting and Compliance Teleconference	Update on state National Pollutant Discharge Elimination System pesticide permit programs and EPA Pesticide General Permit
February 7, 2012	Alaska Forum on the Environment	Tribal Government & Community Involvement in Agency Decision Making; Exploring APDES Permits & Effective Public Involvement
February 12-15, 2012	63rd Annual Pacific Technologists Conference Anchorage	The Clean Water Act, Alaska Pollutant Discharge Elimination System permit program, and status of permits related to the seafood processing industry
February 28-29, 2012	Seafood Processor Workshops	APDES permitting requirements for the Seafood Sector in Alaska, compliance

APDES PROGRAM OUTREACH		
Date	Event	Topic
		assistance, and Q&A regarding seafood processing waste permits
March 9, 2012	Alaska Miners Association Breakfast	Environmental Monitoring at Alaska Hard Rock Mines
March 20-22, 2012	23 rd Biennial Alaska Miners Association Conference	Environmental Monitoring at Alaska Hard Rock Mines; Waste Streams from Mines, DEC Waste Management and Wastewater Discharge Permits for Mines; APDES Inspections-What Types of Inspections are Happening & What to Expect
March 20, 2012	Seafood Products Association 74th Annual Conference	APDES Permitting Program
April 13, 2012	Alaska ComFish Conference 2012	Wastewater Discharge Permitting and the Public Involvement Process
April 24-25, 2012	Seafood Processor Workshops	APDES permitting requirements for the Seafood Sector in Alaska, compliance assistance, and Q&A regarding seafood processing waste permits
April 25, 2012	Interagency (DEC WWDA and C&E, DNR, DFG, BLM, and USACE) Placer Mining Meeting	Placer mining activities for the season, updates to the Annual Placer Mining Application form, and centralizing DNR as the primary point of contact and coordination of agency permitting activities
May 1, 2012	EPA Region 10 Tribal Leaders Summit	Incorporating Traditional Ecological Knowledge (TEK) into Environmental Decision Making
May 9, 2012	DEC/EPA Meeting with Alaska Oil and Gas Association	EPA's draft National Pollutant Discharge Elimination System Beaufort and Chukchi Seas General Permits, proposed schedules for the Cook Inlet General Permits, and permitting authority transfer for oil and gas wastewater permitting
May 9, 2012	52nd Annual Alaska Water Wastewater Management Association Statewide Conference	APDES Permits – Post Issuance
May 11, 2012	Alaska Power Association Regulations Committee Workshop	Construction General Permit, Multi-Sector General Permit, and storm water pollution prevention plans
JULY 1, 2011 – DECEMBER 31, 2011		
October 20, 2011	Alaska Water Wastewater Management Association – Southeast Conference	Discharge Monitoring Reports
October 25, 2011	Alaska Rural Water Association – Annual Training Conference	Update on Alaska Pollutant Discharge Elimination System
November 9, 2011	Alaska Tribal Conference on Environmental Management	Alaska Wastewater Discharge Permitting and Tribal Communications
November 10, 2011	Alaska Miners Association	Overview of State's Clean Water Act Antidegradation Policy
JANUARY 1, 2011 – JUNE 30, 2011		
January 19, 2011	Alaska Association of Environmental Professionals meeting	Update on the Alaska Pollutant Discharge Elimination System, with a focus on Stormwater

APDES PROGRAM OUTREACH		
Date	Event	Topic
January 26, 2011	DEC 2011 Drinking Water Engineer's Annual Meeting	Wastewater: Treatment and Regulations
January 31, 2011	UAA Graduate Course on the Clean Water Act	Stormwater
February 7, 2011	UAA graduate Environmental Science class	Clean Water Act
March 4, 2011	Yukon River Intertribal Watershed Council Meeting	Wastewater discharge permitting
March 8, 2011	Alaska Native Tribal Health Consortium Meeting	APDES permitting in rural Alaska, mixing zones, drinking water backwash general permit, small domestic general permits
June 16-17, 2011	Public Hearings and meeting with Native Village of Barrow sponsored by EPA	Offshore oil and gas exploration NPDES discharge permits
JULY 1, 2010 – DECEMBER 31, 2010		
October 26, 2010	Alaska Association of Harbormasters and Port Administrators 2010 Conference, Wrangell	Storm water Program and Alaska Construction General Permit
November 3, 2010	Associated General Contractors Annual Conference	Alaska Construction General Permit
November 2, 2010	Alaska Miners Association 2010 Conference, AMA Short Course: Mining & Fisheries, Anchorage	Permitting, Water Quality Standards, and Mining
JANUARY 1, 2010 – JUNE 30, 2010		
February 8, 2010	UAA School of Engineering Graduate Certificate Program for Environmental Regulation and Permitting, Anchorage	APDES Permitting & Alaska Water Quality Standards
February 23, 2010	Road & Fish Passage Projects Environmental Control Meeting, Palmer, AK	APDES Program and Storm water
February 25-26, 2010	EPA's New Construction Site Storm water Discharge limits and BMPs Available to Achieve Them, Anchorage	APDES Program and Storm water
May 3-5, 2010	Alaska Water/Wastewater Management Association 50th Annual Conference, Sitka, AK	APDES Program update
JULY 1, 2009 – DECEMBER 31, 2009		
July 14, 2009	Federal Facilities Outreach Meeting, Anchorage	ADEC-Federal agency coordination for APDES permitting
October 17, 2009	American Institute of Professional Geologists – Alaska Section	APDES Phase II and Storm Water Permitting
October 20, 2009	Alaska Association of Harbormasters and Port Administrators	APDES Phase II and Storm Water Permitting
October 21, 2009	City and Borough of Kodiak, Contractors and Engineers	APDES Phase II and Storm Water Permitting
November 3, 2009	Statewide Construction Managers Meeting, Alaska Department of Transportation & Public Facilities, Juneau	Storm water Permitting and Compliance
November 11, 2009	Fish Hatchery Managers Meeting, Alaska Department of Fish & Game, Anchorage	APDES Fish Hatchery General Permit
November 13, 2009	Associated General Contractors – Alaska Section Annual Meeting	APDES Phase II and Storm Water Permitting
November 18, 2009	Alaska Association of Environmental Professionals	APDES Phase II and Storm Water Permitting

APDES PROGRAM OUTREACH		
Date	Event	Topic
December 2-3, 2009	Conference on Water Quality Standard Antidegradation Policy, ADEC, Anchorage	ADEC WQS Antidegradation Policy
JANUARY 1, 2009 – JUNE 30, 2009		
February 2 and 5, 2009	Alaska Forum on the Environment, Anchorage	Co-presentations with EPA Region 10
February 2, 2009	University of Alaska Anchorage graduate engineering/environmental seminar, Anchorage	APDES Program
February 5, 2009	Current Issues in Storm water Regulation, seminar hosted by Lorman Education Services, Anchorage	ADEC's Role and Submittal Requirements for Projects, Facilities and Activities With Storm water Discharges
March 3, 2009	Presentation to the U.S. Army Corps of Engineers and Municipality of Anchorage Department of Public Works	Role of ADEC in NPDES Storm water in Compliance, Inspections, and Enforcement, current status and expected changes due to Primacy
March 19, 2009	AK Department of Transportation & Public Facilities Central Region Environmental Expo, Anchorage	APDES Primacy of the Storm water Sector and the State's Role in Compliance, Inspections, and Enforcement
March 24, 2009	Matanuska-Susitna Borough Storm water Workshop	ADEC, Primacy, and the State's role in compliance, inspections, and enforcement
March 25, 2009	Call-in workshop for statewide and out-of-state participants by EPA Region 10 and ADEC, Anchorage	NPDES Multi-Sector General Permit for industrial storm water discharges
March 25, 2009	Workshop for U.S. Fish & Wildlife Service, National Marine Fisheries Service, and ADEC Wastewater staff, developed and coordinated by ADEC program managers, Anchorage	APDES Program and coordination with Federal fish and wildlife agencies during permitting
March 26, 2009	ADEC and EPA Region 10 workshop, Anchorage	NPDES Multi-Sector General Permit for industrial storm water discharges
April 2, 2009	Storm water workshop jointly presented by the City & Borough of Juneau, ADEC Storm water Program, and Juneau Watershed partnership	Storm water management in Juneau, APDES, municipal programs and public outreach
April 27, 2009	ADEC presentation to U.S. Army Corps of Engineers, Fairbanks	Role of ADEC in NPDES Storm water in Compliance, Inspections, and Enforcement, current status and expected changes due to Primacy
May 5, 2009	ADEC presentation to Alaska Water/Wastewater Management Association, Anchorage	Overview of APDES Program
June 25, 2009	ADEC-sponsored meeting with the U.S. Fish & Wildlife Service and the National Marine Fisheries Service, Anchorage	APDES 2009 Permit Issuance Plan
June 29, 2009	ADEC participated in municipality-sponsored work session, Valdez	On-site wastewater systems

APDES PROGRAM OUTREACH		
Date	Event	Topic
JULY 1, 2008 – DECEMBER 31, 2008		
May - July 2008	EPA Tribal Consultations in Dillingham, Sitka, Galena, and Bethel	EPA's Government to Government consultation on ADEC's Primacy application with DEC participation
July 21-23, 2008	EPA-ADEC public meetings / hearings - Fairbanks, Juneau, and Anchorage	ADEC's NPDES Primacy Application
September 25, 2008	Air and Waste Management Association, Anchorage	APDES Primacy Program
October 10, 2008	Yukon River Intertribal Watershed Council, Fairbanks	Wastewater Issues in the Yukon Watershed
October 15, 2008	Public Information Meeting, Anchorage	Seafood NPDES General Permit
October 21, 2008	Army Western Regional Environmental Office	How APDES Program will impact federal facilities in Alaska, meeting
November 5-7, 2008	Alaska Miners Association	Presentations on storm water, water quality monitoring, and compliance
November 12, 2008	Alaska Board of Forestry, Palmer	Log transfer Facility General Permits under APDES
November 12, 2008	Associated General Contractors, Anchorage	NPDES Primacy, Construction and Development of Effluent Limit Guidelines
November 19-20, 2008	Resource Development Council, Anchorage	APDES Program, ADEC information booth
December 3-4, 2008	Environmental Enforcement Seminar, Anchorage	APDES Permitting Process, Oversight, and Violation Criteria
December 10-11, 2008	Alaska Water/Wastewater Management Association, Anchorage and Fairbanks	NPDES-APDES Primacy Transition

VII. RECRUITMENT AND RETENTION

Recruitment

ADEC has 43 full time equivalent staff dedicated to the APDES Program. Three positions were vacant as of June 30, 2012. ADEC expects to continue to fill vacancies throughout 2012.

Retention

ADEC has undertaken a department-wide effort to improve employee retention, including enhancing communication, providing training and professional development opportunities, and working within the parameters of the collective bargaining system to increase salaries.

APPENDIX A

BI-ANNUAL SUMMARY - ADEC- ISSUED CERTIFICATES, PERMITS, AND AUTHORIZATIONS						
JANUARY 2006 THROUGH DECEMBER 2007						
Type of Issuance	1/1/06 - 6/30/06	7/1/06 - 12/31/06	1/1/07 - 6/30/07	7/1/07 - 12/31/07	1/1/08 - 6/30/08	7/1/08 - 12/31/08 ^a
ADEC ISSUANCES UNDER APDES						
401 Certifications of EPA-Issued NPDES IPs ^a	4	1	0	3	2	5
401 Certifications of EPA-Issued GPs ^b	1	0	3	0	0	0
Authorizations under NPDES GPs	45	23	22	13	23	6
ADEC ISSUANCES UNDER APDES						
APDES IPs	NA ^c	NA	NA	NA	NA	0
APDES GPs	NA	NA	NA	NA	NA	0
Authorizations under APDES GPs	NA	NA	NA	NA	NA	0
Construction Storm Water Authorizations	NA	NA	NA	NA	NA	NA
MSGP Storm Water Authorizations	NA	NA	NA	NA	NA	NA
ADEC STATE PERMITS AND AUTHORIZATIONS						
State IPs	10	7	8	2	1	2
State GPs	0	0	1	0	1	0
Authorizations under State GPs	32	28	27	25	18	18
Total	92	59	61	43	45	31
Note: Includes discharges to surface water, land, and underground injection control						
a) Individual Permit						
b) General Permit						
c) Not Applicable						