Portland Water Bureau Water Quality



Date: August 30, 2016 Author: Sarah Messier

Lead Hazard Reduction Program (LHRP) Evaluations

	LHRP Component: Water Treatment ar	nd Monitoring				
Report Date	Report Title	Evaluator				
June 1999	Water Treatment and Water Quality Monitoring Tier One Follow-up Study PWB Staff					
	arizes the findings of an investigation conducted in A ibute to elevated levels of lead and copper in the tap	.a. 8				
June 2001	Lead and Copper Monitoring Results and Data Analysis for September 2000 Kelly Mooney, PWB					
This technical mem	o summarizes the data analysis of the Lead and Copp	per Rule home sampling results for				
September 2000 an	d examines factors that have potential to affect lead	levels.				
September 2003	Review of Corrosion Control Practices for Technical Advisory Committee					
Portland Water B	ureau and the EPA convened a Technical Advisory Co					
	t practices, review monitoring results, and provide re					
and long-term issu						
September 2004	The effects of moving from consumption-based to Tier-1 home occurrence-based monitoring on lead compliance.	Reuben Snyder, PWB				
This analysis exam	nines Tier 1 home data from before and after the Join	nt Monitoring Plan revision in 2003.				
June 2005						
The purpose of th	is report was to evaluate the results of the October 2	2004 Tier 1 home lead sample period and to				
determine why th	e lead 90th percentile increased from previous sampl	ling periods.				
November 2005	Tier 1 Home analysis for October 2005	Ann Richter, PWB				
	is report was to evaluate the results of the October 2 e lead 90 th percentile decreased from previous samp					
March 2007	LCR Tier 1 Home analysis for Fall 2006	Kristin Anderson, PWB				
90th percentile va	Rule Tier 1 home sample lead results from the Fall 20 alue of 0.017 mg/L, above the action level of 0.015 mand see what trends or relationships of lead to other	g/L. An analysis of historic lead results was				
July 2014	Analysis of Fall 2013 LCR Tier One Home Lead Results	Sarah Silkie, PWB				
90th percentile va existing data is to are any other tren the distribution sy	Rule Tier 1 home sample lead results from the Fall 20 alue of 0.016 mg/L, above the action level of 0.015 m see if there is any evidence of water system operations or relationships evident between the home lead restems.	g/L. This memo presents an analysis of ons affecting lead levels, and to see if there				
Fall 2017 (anticipated)	Corrosion Study	Black & Veatch				
	ctives include better understanding of the causes of induct additional sampling required to better unders					

Maria I	HRP Component: Public Education and C	Community Outreach				
Report Date	Report Date Report Title Evaluator					
February 2001	Prevalence of Lead Dust Hazards Study	John Dougherty, PhD, Program Design and Evaluation Services (PDES), Multnomah County Health Department (MCHD)				
The goal of this stu	udy was to understand the locations and amounts of	lead dust hazards in older Portland homes.				
October 2002 – present	LHRP Partner Quarterly Reports PWB Staff					
PWB collects prog	ress reports from LHRP community partners as a pro	cess measure evaluation. The quarterly				
	arized in a PWB quarterly report, and reported to EP.					
January 2003	Portland Lead Hazard Control Program (PLHCP) Outreach and Education Program Evaluation Stacy Edwards, PWB					
Provides a qualita	tive evaluation of the Portland Lead Hazard Control F	Program that compares program objectives				
	activities, strategies, and messages actually being use					
July 2004	Drinking Water: Safeguarding the District of Columbia's Supplies and Applying Lessons Learned to Other Systems John Stephenson, U.S. Government Accountability Office (GAO)					
At the request of t	he Subcommittee on Environment and Hazardous M	laterials, Committee on Energy and				
Commerce, House	of Representatives, the GAO examined issues conce	rning lead in drinking water generally and				
the situation in W	ashington, D.C., in particular. The GAO examined the	PWB LHRP as an example of how a water				
system notifies an	d educates its customers on lead health risks, and ho	ow it interacts with federal, state, and local				
agencies to respor	nd to lead issues. The GAO visited the PWB, studied t	he program, toured LHRP partner education				
and testing events	, and summarized its findings in this report.					
August 2005	Community Energy Project Follow-Up Visit Evaluation Project	Elyce Brown, Community Energy Project				
CEP contracted Jo	hn Dougherty to design an evaluation plan for the CE	P Lead Poisoning Prevention workshops. CEP				
then implemented	this plan and produced this report. An evaluation th	nat is modified from the procedures in this				
report has been co	onducted annually through present, and the results a	re reported in CEP's Quarter 4 reports.				
March 2006	How to Assess and Understand Your					
Based on his work	with CEP on their follow-up evaluations, John Dough	nerty developed an evaluation toolkit that				
	s can use to design and implement an evaluation pro					
July 2006	Blood Lead Level Analysis	John Dougherty, PhD, PDES				
	sed GIS data of blood lead level testing from 2000-20					
	ight inform lead hazard reduction outreach and educ					
May 2007	LHRP FY2005-06 Evaluation	James Burke				
James Burke surve	eyed past clients or participants in LHRP activities cor	nducted by the community partners in				
	raluation resulted in specific recommendations for ea					
	PWB staff conducted a follow-up evaluation by sendi					
	eceived services from the LeadLine, PWB targeted he	-				
	nt of these results was drafted but not completed.					
November 2009 –						
present	LeadLine Postcard Survey	Scott Bradway/Sarah Messier, PWB				
	e postcard survey to people who called the LeadLine	in the previous quarter to evaluate this				
	ard continues to be mailed out quarterly. Results are					
the EPA in the sem						

Report Date	P Component: Public Education and Com Report Title	Evaluator	
February 2015 – LeadLine Email Survey Sarah Messier, PWB		Sarah Messier, PWB	
experience with t	cto a simple survey to people who emailed the Leadl the LeadLine. This email continues to be sent out qua e EPA in the semi-annual reports.		
December 2017 (anticipated) LHRP FY2016-17 Evaluation David Dowler, PhD, PDES			
•	the evaluation is to answer questions regarding the eps, and raising awareness and knowledge around core to lead.		

	LHRP Component: Lead in Water Educ	ation and Testing		
Report Date	Report Title	Evaluator		
March 2000	Report on Analysis of Kitchen Sink Tap Water Lead Concentrations from Customer Requested Lead-in-Water Tests	John Dougherty, PhD, PDES		
	onducted an analysis of the PWB customer data after t, the age of home most at-risk for lead in water.	r corrosion control treatment started to		
January 2003	Lead in Water Education and Testing Program Pilot Program Evaluation	John Dougherty, PhD, PDES		
	cused on the target populations who called the Lead pant satisfaction with the LWET, and on changes in b			
February 2004 – present Annual Review of LWET Data PWB Staff				
This annual reportrends.	t analyzes the data of the customer-requested lead-in	n-water kits to identify historical and new		

LHRP Comp	onent: Portland Housing Bureau Home (P	HB) Lead Hazard Control Program	
Report Date	Report Title	Evaluator	
August 2001	Portland Lead Hazard Control Program (PLHCP): Lead Hazard Reduction Follow-Up Evaluation Report	John Dougherty, PhD, PDES	
January 2010	Portland Lead Hazard Control Program (PLHCP): Lead Hazard Reduction Follow-Up Evaluation Report: 2009	John Dougherty, PhD, PDES	

The purpose of these studies was to collect follow-up data on lead dust loadings in dwellings that have received lead remediation work by contractors hired through the Portland Development Commission as part of the Portland Lead Hazard Control Program (PLHCP), supported by a HUD-funded grant administered by the City of Portland Bureau of Housing and Community Development (BHCD).



Nick Fish, Commissioner Michael Stuhr, P.E., Administrator

1120 SW 5th Avenue, Room 600 Portland, Oregon 97204-1926 Information: 503-823-7404 www.portlandoregon.gov/water



IMPACT STATEMENT

187978

Date:

July 6, 2016

Council Date:

August 24, 2016

Legislation Title:

Authorize an Intergovernmental Agreement in the amount of \$56,250 with

the Multnomah County Health Department for Program Evaluation

Services of the Lead Hazard Reduction Program (Ordinance)

Contact Name:

Scott Bradway

Contact Phone:

503-823-1951

Presenter Name:

Scott Bradway

Purpose of proposed legislation and background information:

The purpose of this legislation is to authorize an Intergovernmental Agreement with the Multnomah County Health Department (MCHD) to provide program evaluation services for the Water Bureau's Lead Hazard Reduction Program (LHRP). The program evaluation will provide essential information related to the effectiveness of the program in reducing exposure to lead in the Bull Run service area.

The Water Bureau, through the LHRP, provides funding to community organizations to provide education and outreach to reduce exposure to lead hazards. The main objective of the LHRP is compliance with the Environmental Protection Agency's Lead and Copper Rule for drinking water. In 1997, the LHRP was approved by the State of Oregon as "optimized treatment" for compliance with the Lead and Copper Rule.

The LHRP has four components: treatment and monitoring; home lead reduction; lead in water testing; and education and outreach. The Water Bureau funds education and outreach programs for lead poisoning prevention through community partner programs. The Water Bureau will evaluate the education and outreach component of the LHRP to determine the effectiveness of the community partner programs in reducing the community's exposure to lead in the Portland area. The MCHD is capable and willing to provide the program evaluation services through its Program Evaluation and Design Services (PDES) group. The scope of work for this agreement has been developed to support the Water Bureau's compliance requirements with the Lead and Copper Rule.

Financial and budgetary impacts:

The not-to-exceed value of the Intergovernmental Agreement is \$56,250 and is intended to last no longer than two years. Funding for the Intergovernmental Agreement is available in the FY 2016-17 Budget and will be requested in the FY 2017-18 Budget. The legislation does not create any staffing changes.

Community impacts and community involvement:

The result of the evaluation proposed in this legislation is anticipated to benefit the Portland community with regard to City livability and health. The LHRP education and outreach efforts have focused on targeting the most at-risk populations for lead exposure, which historically has been low income residents in older Portland neighborhoods. The evaluation will examine: if the LHRP community partners are reaching the targeted, at-risk populations in the Portland community; if the LHRP partners are raising awareness and knowledge about lead hazards in the community; and, if the populations reached by LHRP partners are using LHRP partner resources to reduce lead exposure.

Budgetary Impact worksneet	i
Does this action change appropriations?	
YES : Please complete the information below.	
NO: Skip this section	

Fund	Fund Center	Commitment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amount
			6				

Michael Stuhr, P.E., Administrator