

# U.S. Agent Orange/Dioxin Assistance to Vietnam

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# Summary

U.S. assistance to Vietnam for the environmental and health damage attributed to a dioxin contained in Agent Orange and other herbicides sprayed over much of the southern portion of the country during the Vietnam War remains a major issue in bilateral relations. Since 2007, Congress has appropriated over \$130 million to address these two issues. Starting in FY2011, Congress has appropriated separate amounts for environmental remediation and for health and disability activities in areas of Vietnam that were targeted with Agent Orange or remain contaminated with dioxin.

Most of appropriated funds have been used by the U.S. Agency for International Development (USAID) for the environmental clean-up of Danang airport, one of the major airbases used for storing and spraying the herbicides between 1961 and 1971. A lesser amount of the appropriated funds have been used by USAID for assistance to Vietnam's persons with disabilities, generally, but not always in the vicinity of Danang or other dioxin contaminated areas.

Congressional interest in Agent Orange/dioxin in Vietnam has largely been focused on two issues. The first issue is determining the appropriate amount and type of assistance to provide to address the environmental damage and the health effects of dioxin contamination in Vietnam. The second issue is oversight of how such assistance has been utilized by the State Department and USAID.

According to USAID projections, the environmental remediation of Danang airport currently underway by a process known as in-pile thermal desorption (IPTD) will be completed in March 2017 at an estimated cost of \$88 million. This is \$50 million higher than the original projected cost of the project. USAID has fully obligated those funds Congress has appropriated for environmental remediation assistance to Vietnam.

The provision of health-related assistance to areas contaminated with Agent Orange/dioxin has raised more issues. By May 2014, USAID had obligated less than two-thirds of the appropriated funds for fiscal years 2010-2013. In addition, the funds have generally been used for disability assistance programs regardless of the cause of the disability, rather than for both health and disability programs targeting populations residing near Agent Orange/dioxin "hot spots."

Field studies have identified a number of areas in Vietnam contaminated with the dioxin associated with Agent Orange, including the airports near Bien Hoa and Phu Cat, as well as sections of the A Luoi Valley. The U.S. and Vietnamese governments are jointly assessing the possibility of undertaking the clean-up of the Bien Hoa airport. One estimate projects the environmental clean-up of Bien Hoa airport could cost over \$250 million.

While the obligations for environmental remediation activities generally have not been a matter of congressional concern, how USAID has obligated appropriations for health and disability activities has drawn some attention.

Two bills—the Department of State, Foreign Operations, and Related Programs Appropriations Act, 2016 (S. 1725); and the Victims of Agent Orange Relief Act of 2015 (H.R. 2114)—would appropriate additional funds for FY2016. The Obama Administration requested \$15.0 million under the Economic Support Fund (ESF) to continue the IPTD project at Danang airport and \$4.75 million of Development Assistance (DA) funding for "social and economic services and protection for vulnerable populations."

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#### Overview

During the Vietnam War,<sup>1</sup> the U.S. military conducted Operation Ranch Hand, a program that sprayed an estimated 18-20 million gallons of herbicides—including approximately 11-12 million gallons of Agent Orange<sup>2</sup>—over about 12,000 square miles of southern Vietnam between 1961 and 1971.<sup>3</sup> A contaminant of the manufacture of Agent Orange (as well as two other herbicides used, Agent Pink and Agent Purple) was 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), a developmental toxicant and a probable human carcinogen according to the U.S. Environmental Protection Agency.

Environmental surveys conducted in Vietnam have identified a number of dioxin "hot spots," including the airbases at Bien Hoa, Danang,<sup>4</sup> and Phu Cat, that are contaminated with TCDD well above internationally acceptable levels (see **Figure 1**). In addition, the A Luoi (or A Shau) Valley, south of Quang Tri and west of Danang, was considered an important segment of the Ho Chi Minh Trail, a key supply route used by North Vietnamese forces and their allies, and was therefore heavily sprayed. The former U.S. military base in the A Luoi Valley has been identified as another "hot spot."

In recent years, U.S. response to the environmental damage and health problems caused by Agent Orange and its associated dioxin in Vietnam has been viewed as helping to advance bilateral relations between the two nations. Secretary John Kerry stated during his August 2015 visit to Hanoi:

We've also reached a milestone in our ability to be able to reclaim the soil that was contaminated by dioxin in Vietnam, particularly in the vicinity of Danang Air Base, and to find and remove explosives that remain from the war. It is worth remembering that it was our mutual effort to develop an understanding on these very issues—issues that came directly out of the bitter conflict—that first began to break down the barriers of mistrust that separated our countries.<sup>5</sup>

Vietnamese officials continue to express a desire for U.S. assistance for environmental remediation and the health issues related to exposure to Agent Orange and its associated dioxin. Vietnam Foreign Minister Pham Binh Minh reportedly raised the issue with U.S. Secretary of State John Kerry during Kerry's visit to Vietnam in August 2015.

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<sup>&</sup>lt;sup>1</sup> Between 1950 and 1975, the United States was actively involved in a civil war in Vietnam between the Democratic Republic of Vietnam (North Vietnam) and the Republic of Vietnam (South Vietnam), providing initially military assistance and later active combat troops to support the Republic of Vietnam in the conflict. By the time the civil war ended with the victory of North Vietnam on April 30, 1975, over 50,000 U.S. soldiers had died, and an estimated one million Vietnamese soldiers and civilians had been killed.

<sup>&</sup>lt;sup>2</sup> An approximately 50-50 mix of two chemicals—2,4,-D (2,4, dichlorophenoxyacetic acid) and 2,4,5-T (2,4,5 trichlorophenoxyacetic acid)—Agent Orange derived its name from the orange band painted on the side of the 55-gallon drums in which the herbicide was delivered.

<sup>&</sup>lt;sup>3</sup> For more about the history of Operation Ranch Hand and the use of Agent Orange in Vietnam, see CRS Report RL34761, *Vietnamese Victims of Agent Orange and U.S.-Vietnam Relations*, by Michael F. Martin.

<sup>&</sup>lt;sup>4</sup> Also sometimes written as "Da Nang."

<sup>&</sup>lt;sup>5</sup> Department of State, "Remarks on U.S.-Vietnam: Looking to the Future," press release, August 7, 2015.

<sup>&</sup>lt;sup>6</sup> "US Secretary of State Talks on Agent Orange, TPP," VietnamNet, August 8, 2015.



Figure I. Map of Vietnam Showing Agent Orange "Hot Spots"

Source: CRS.

From 2007 to the present, Congress has appropriated a total of \$130.3 million for the environmental remediation of Agent Orange/dioxin and health and disability programs in areas of Vietnam sprayed with Agent Orange or otherwise contaminated by dioxin. Starting with the 112<sup>th</sup>

The appropriated funds for environmental remediation generally have been allocated under the State Department's Economic Support Fund account (ESF), while the funds for health and disability programs have been allocated under the Developmental Assistance account (DA). In general, the funds appropriated under both accounts have been made available for two fiscal years. The State Department has delegated responsibility for the administration and obligation of the appropriated funds to the U.S. Agency for International Development (USAID).

To date, most of the environmental remediation effort has been focused on the cleanup of the Danang airport, while the funds appropriated for health and disability programs has been used primarily for disability support programs in Danang and other parts of Vietnam. With the cleanup of Danang airport well underway, U.S. and Vietnamese officials are examining possible cooperation in dioxin removal operations at the airbase in Bien Hoa. In addition, the two governments are discussing the appropriate manner to address health and disability problems among Vietnamese nationals that may be attributable to dioxin exposure.

The programs and projects funded by the appropriated funds have been administered by the State Department and USAID, in cooperation with various ministries and agencies within the Vietnamese government. In 1999, Vietnam's central government created the Office of the National Steering Committee on Overcoming Consequences of Agent Orange/dioxin in Vietnam (Office 33, or Committee 33), an interministerial body, to oversee and coordinate its government's policy on Agent Orange and dioxin. Office 33 includes representatives from Vietnam's Ministry of Natural Resources and Environment (MONRE, where Office 33 is administratively located); Ministry of Finance (MOF); Ministry of Foreign Affairs (MOFA); Ministry of Health (MOH); Ministry of Labour, Invalids and Social Affairs (MOLISA); Ministry of National Defence (MND); Ministry of Planning and Investment (MOPI); and Vietnam Academy of Science and Technology (VAST).

Congressional interest has generally focused on two issues. The first issue is determining the amount to allocate for the environmental remediation of dioxin "hot spots" in Vietnam and health and disability programs in areas of Vietnam sprayed with Agent Orange or otherwise contaminated by dioxin. The second issue is oversight to ascertain if the State Department and USAID are effectively and appropriately obligating and expending the available funds. In particular, Congress has paid attention to the rate at which USAID has obligated the funds Congress appropriated for use on health and disability activities.

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Matthew Weed, February 24, 2009.

<sup>&</sup>lt;sup>7</sup> The **Appendix** contains the relevant text from the public laws and related reports and explanatory statements that appropriated funds for Agent Orange/dioxin environmental remediation and health and disability programs in Vietnam. Laws that were superseded by subsequent legislation are not included in the appendix.

<sup>&</sup>lt;sup>8</sup> Section 653(a) requires the President, within 30 days of enactment of any law appropriating funds to carry out foreign assistance, to "notify the Congress of each foreign country and international organization to which the United States Government intends to provide any portion of the funds under such law and of the amount of funds under that law, by category of assistance." For more about the provisions of section 653(a) and its implementation, see CRS General Distribution Memorandum CD099, "Reporting Under Section 653(a) of the Foreign Assistance Act of 1961," by

# **Congressional Appropriations Since 2007**

The appropriation of funds explicitly to address the Agent Orange/dioxin issue in Vietnam started in May 2007, when the 110<sup>th</sup> Congress passed the U.S. Troop Readiness, Veterans' Care, Katrina Recovery, and Iraq Accountability Appropriations Act, 2007 (P.L. 110-28). That act appropriated \$3 million "for the remediation of dioxin contaminated sites in Vietnam, and to support health programs in communities near those sites." After more than a year of internal consultation, the State Department decided that the administration and obligation of the \$3 million would be handled by USAID, setting a precedent for the handling of future appropriations for Agent Orange/dioxin assistance to Vietnam.

Table 1. Congressional Appropriations for Agent Orange/Dioxin Remediation and Health-Related Activities in Vietnam

(in Millions of U.S. Dollars)

Congress	Public Law	Date Enacted	Fiscal Year	Total Amount	Environmental Remediation	Health- Related Activities
I I O <sup>th</sup>	P.L. 110-28	May 2007	2007	3.0	n.a.	n.a.
th	P.L. 111-8	March 2009	2009	3.0	n.a.	n.a.
	P.L. 111-117	December 2009	2010	3.0	n.a.	n.a.
	P.L. 111-212	July 2010	2010	12.0	n.a.	n.a.
II2 <sup>th</sup>	P.L. 112-10	April 2011	2011	18.5	15.5	3.0
	P.L. 112-74	December 2011	2012	20.0	15.0	5.0
	P.L. 112-175a	September 2012	2013			
II3 <sup>th</sup>	P.L. 113-6	March 2013	2013	19.3	14.5	4.8b
	P.L. 113-46 <sup>c</sup>	October 2013	2014			
	P.L. 113-73 <sup>d</sup>	January 2014	2014			
	P.L. 113-76	January 2014	2014	29.0	22.0	7.0
	P.L. 113-235	December 2014	2015	22.5	15.0	7.5
TOTAL				130.3	82.0	27.3

Source: CRS research, with the assistance of U.S. Agency for International Development (USAID).

**Notes:** Table does not include \$3.9 million allocated for these purposes by the State Department out of funds appropriated for more general uses, such as the Economic Support Fund (ESF). Appropriations made in the 110<sup>th</sup> and 111<sup>th</sup> Congress did not allocate amounts between environmental remediation and health-related activities.

- a. Superseded by P.L. 113-6.
- b. Amount based on sequestration rate of 3.3%; USAID reported a preliminary figure of \$3.0 million.
- c. Allowed for the continuation of funding at levels approved by P.L. 113-6 through January 15, 2014.
- d. Allowed for the continuation of funding at levels approved by P.L. 113-6 through January 18, 2014.

<sup>&</sup>lt;sup>9</sup> U.S. Congress, Senate Committee on Appropriations, *Making Emergency Supplemental Appropriations for the Fiscal Year Ending September 30, 2007, and for Other Purposes*, 110<sup>th</sup> Cong., 1<sup>st</sup> sess., March 22, 2007, S.Rept. 110-37 (Washington: GPO, 2007).

The 111<sup>th</sup> Congress in three separate pieces of legislation appropriated a total of \$18 million for dioxin cleanup in Vietnam and related health services (see **Table 1**): In March 2009, the 111<sup>th</sup> Congress appropriated \$3 million for Agent Orange/dioxin remediation and health care assistance in the vicinity of the Danang "hot spot" in the Omnibus Appropriations Act, 2009 (P.L. 111-8). In December 2009, Congress passed the Consolidated Appropriations Act, 2010 (P.L. 111-117), which included \$3 million for dioxin cleanup and related health services in Vietnam. In July 2010, Congress included \$12 million "to support the remediation of dioxin contamination at the Danang Airport, which poses extreme risks to human health and welfare, and related health activities" in the Supplemental Appropriations Act, 2010 (P.L. 111-212). In addition, the State Department and USAID allocated \$1.9 million in Development Assistance funds for FY2010 for environmental remediation at Danang airport.<sup>10</sup>

On April 15, 2011, the 112<sup>th</sup> Congress appropriated in the Department of Defense and Full-Year Continuing Appropriations Act 2011 (P.L. 112-10) \$15.5 million for remediation activities at dioxin contaminated sites in Vietnam, and \$3 million for related health activities—the first time Congress explicitly divided the funds between the two uses. An additional \$20.0 million was appropriated by the 112<sup>th</sup> Congress in the Consolidated Appropriations Act, 2012 (P.L. 112-74), with not less than \$15.0 million allocated for "environmental remediation of dioxin contamination at the Danang and Bien Hoa airports and other severely contaminated sites," plus not less than \$5.0 million for "health/disability activities in areas of Vietnam that were targeted with Agent Orange or remain contaminated with dioxin." P.L. 112-74 was the first legislation to explicitly appropriate funds for dioxin-contaminated locations other than the Danang airport.

The conference report accompanying P.L. 112-74 also endorsed language in a Senate report associated with the Department of State, Foreign Operations, and Related Programs Appropriations Act, 2012 (S. 1601) directing USAID, in consultation with the Senate Appropriations Committee, the Department of State, the Government of Vietnam, and "other interested parties" to develop a "comprehensive, multiyear plan" for Agent Orange-related activities in Vietnam within 180 days of the enactment of the law.<sup>12</sup>

The 113<sup>th</sup> Congress continued to appropriate funds for the environmental remediation of Agent Orange/dioxin in Vietnam and related health services. The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6), which superseded P.L. 112-175, renewed the appropriation levels contained in P.L. 112-174 for FY2013, subject to sequestration requirements. Similarly, P.L. 113-46 and P.L. 113-73 renewed appropriations for FY2014 until being superseded by the Consolidated Appropriations Act, 2014 (P.L. 113-76), which appropriated \$22.0 million for environmental remediation and \$7.0 million for "health and disability programs in areas sprayed with Agent Orange or otherwise contaminated by dioxin." Section 7043(h) of the Consolidated and Further Continuing Appropriations Act, 2015 (P.L. 113-235) states:

<sup>&</sup>lt;sup>10</sup> U.S. Congress, House Committee on Foreign Affairs, Subcommittee on Asia, the Pacific, and the Global Environment, *Testimony of Acting Deputy Assistant Secretary Matthew Palmer*, Agent Orange in Vietnam: Recent Developments in Remediation, 111<sup>th</sup> Cong., 2<sup>nd</sup> sess., July 15, 2010.

<sup>&</sup>lt;sup>11</sup> U.S. Congress, Conference Committee, *Military Construction and Veterans Affairs and Related Agencies Appropriations Act*, *2012*, Conference Report to Accompany H.R. 2055, 112<sup>th</sup> Cong., 1<sup>st</sup> sess., December 15, 2011, H.Rept. 112-331 (Washington: GPO, 2011).

<sup>&</sup>lt;sup>12</sup> U.S. Congress, Senate Committee on Appropriations, *Department of State, Foreign Operations, and Related Programs Appropriations Act*, 2012, Report to Accompany S. 1601, 112<sup>th</sup> Cong., 1<sup>st</sup> sess., September 22, 2011, S.Rept. 112-85 (Washington: GPO, 2011).

<sup>&</sup>lt;sup>13</sup> Joint Explanatory Statement: Division K – Department of State, Foreign Operations, and Related Programs Appropriations Act, 2014, p. 27 (http://docs.house.gov/billsthisweek/20140113/113-HR3547-JSOM-J-L.pdf).

Funds appropriated by this Act under the heading "Economic Support Fund" shall be made available for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes, and funds appropriated under the heading "Development Assistance" shall be made available for health/disability activities in areas sprayed with Agent Orange or otherwise contaminated with dioxin.

The act's accompanying "Explanatory Statement" specifies that \$7.5 million is to be provided under "Development Assistance" for "Vietnam health/disability programs" and \$15.0 million is to be provided under "Economic Support Fund" for "Vietnam (Environmental remediation of dioxin)." <sup>14</sup>

The 114<sup>th</sup> Congress has not appropriated funds explicitly for Agent Orange/dioxin environmental remediation or related health services.

# **USAID Obligations**

The State Department has designated USAID as the responsible agency for the obligation of the appropriated funds for Agent Orange/dioxin related activities in Vietnam. **Table 2** lists the amounts USAID has obligated of funds appropriated in fiscal years 2007 to 2013 by type of activity, implementing partner, and fiscal year. USAID obligated 81% of the \$21 million appropriated for fiscal years 2007 to 2010 for environmental remediation projects, and 16% for health and disability related services; 3% of the appropriated funds apparently were not obligated by the end of FY2013.

Starting in FY2011, Congress appropriated separate amounts for each purpose (see "Congressional Appropriations Since 2007"). USAID fully obligated the \$45 million appropriated for environmental remediation for fiscal years 2011 to 2013, and 63% of the \$12.8 million appropriated for health and disability related activities. USAID was unable to provide obligation data for fiscal years 2014 and 2015 for this report.

The manner in which USAID has obligated the appropriated funds has, at times, been an issue with Congress. While the rate of obligations for environmental remediation activities generally has not been a matter of concern, how USAID has obligated appropriations for health and disability activities has drawn some congressional attention. The two main concerns about the health and disability obligations are the seemingly slower pace of utilization (when compared to the environmental remediation funds), and the types of programs being funded.

<sup>&</sup>lt;sup>14</sup> U.S. Congress, House Committee on Appropriations, Explanatory Statement Submitted by Mr. Rogers of Kentucky, Chairman of the House Committee on Appropriations Regarding the House Amendment to the Senate Amendment on H.R. 83, 113<sup>th</sup> Cong., 2<sup>nd</sup> sess., December 11, 2014.

Table 2. Obligation of Appropriated Funds for Agent Orange/Dioxin Related Activities in Vietnam

By Fiscal Year and Type of Activity

Program Component/Activity	Implementing Partner	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TOTAL
HEALTH/DISABILITY									
Empowering People with Disabilities in Danang	Save the Children (SC)	400,000		799,980	-	-	-	-	1,199,980
Rehabilitation Services and Socioeconomic Support to People with Disabilities in Danang	Vietnam Assistance for the Handicapped (VNAH)	382,344	-	906,064	-	-	-	-	1,288,408
Support of People with Disabilities in Danang	East Meets West Foundation (EMW)	200,000	-	300,000	-	•	-	-	500,000
Disability Support Program	Development Alternatives Inc. (DAI)	-	-	-	-	5,192,582	2,477,342		7,669,924
Disability/Health Assessment	Chemonics	-	-	-	103,000	-	-	-	103,000
Disability/Health Support Interagency Agreement (IAA)	Center for Disease Control (CDC)	-	-	-	-	53,169	-	-	53,169
Program Support	USAID	17,656	96,102	118,009	100,000	70,907	200,000	75,000	677,674
Subtotal Health/Disability	,	1,000,000	96,102	2,124,053	203,000	5,316,658	2,677,342	75,000	11,492,155
ENVIRONMENTAL REMEDIATION	N								
Assessments and Engineering Designs and Plans for Dioxin Remediation at Danang Airport	CDM International, Inc.	-	1,450,000	681,076	2,411,200	-	-	-	4,542,276
Excavation and Construction Services for Dioxin Remediation at Danang Airport	Tetra Tech, Inc.	-	-	-	5,429,408	11,566,804	-	-	16,996,212
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Program Component/Activity	Implementing Partner	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	TOTAL
In-pile Thermal Desorption (IPTD) Design for Dioxin Remediation at Danang Airport	TerraTherm, Inc.	-	-	-		1,336,486	-	-	1,336,486
In-pile Thermal Desorption Implementation for Dioxin Remediation at Danang Airport	Tetra Therm, Inc.	-	-	-	-	-	16,492,658	11,209,712	27,702,370
Construction Management Oversight of Remediation at Danang Airport	CDM International Inc.	-	-	-	6,000,000	2,336,444	-	-	8,336,444
Bien Hoa Environment Assessment	CDM International, Inc.	-	-	-	-	-	5,200	500,000	505,200
Program Support	USAID		453,898	194,871	300,000	463,000	824,800	489,430	2,725,999
Subtotal Environmental Remediation	n	-	1,903,898	875,947	14,140,608	15,702,734	17,322,658	12,199,142	62,144,987
Total Health/Disability and English Remediation Program	vironmental	1,000,000	2,000,000	3,000,000	14,343,608	21,019,392	20,000,000	12,274,142	73,637,142

Source: USAID, as of May 29, 2014.

Notes: USAID was unable to provide CRS with updated obligation data for FY2013 and FY2014 in time for inclusion in this report.

Since Congress began appropriating funds specifically for Agent Orange/dioxin related activities in Vietnam in fiscal year 2007, it generally has designated that the health and disability services are to be provided in locations near Agent Orange/dioxin contaminated areas. The \$3 million appropriated in fiscal year 2007 in P.L. 110-28 was "to support health programs in communities near those sites," according to the accompanying Senate report. The joint committee print accompanying P.L. 111-8 stipulated "\$3,000,000 is provided to continue environmental remediation of dioxin contamination at the Danang Airport and related health activities in nearby communities in Vietnam." H.Rept. 112-331, which accompanied P.L. 112-74, stated, "The conferees recommend not less than \$5,000,000 under this heading be made available for health/disability activities in areas in Vietnam that were targeted with Agent Orange or remain contaminated with dioxin." It is unclear if the State Department and USAID have in all cases obligated these funds in accordance with this locational guidance.

Table 3. Contracts Awarded for Danang Environmental Remediation and Bien Hoa
Assessment

Contractor	Purpose of Award	Amount of Award	Date of Award
CDM International Inc.	Assessment, engineering, and planning design at Danang	\$4.54 million	September 29, 2009
Terra Therm Inc.	Design of IPTD at Danang	\$1.34 million	January 20, 2012
CDM International Inc.	Construction management and oversight of Danang project	\$13.28 million	June 18, 2012
Tetra Tech Inc.	Environmental remediation (excavation and construction) at Danang	\$16.99 million	June 28, 2012
Terra Therm Inc.	IPTD services at Danang	\$36.78 million	February 7, 2013
CDM International Inc.	Environmental and gender assessment at Bien Hoa	\$2.10 million	September 29, 2013

**Source:** Office of the Inspector General, USAID, Audit of USAID/Vietnam's Environmental Assessments and Remediation Project, Audit Report No. 5-440-15-001-P, Manila, Philippines, November 12, 2014.

Based on the information provided by USAID, funds for health and disability related services in fiscal years 2007 to 2009 were obligated to programs specifically in Danang. However, for FY2010 to FY2013, the appropriated health and disability funds were largely obligated to Development Alternatives, Inc. (DAI) for a disability support program that was designed to "broadly address the needs and improve the lives of persons with disabilities," without explicit reference to Agent Orange/dioxin "hot spots." According to USAID, this three-year program is scheduled to end in January 2016.

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<sup>&</sup>lt;sup>15</sup> U.S. Congress, Senate Committee on Appropriations, *Making Emergency Supplemental Appropriations for the Fiscal Year Ending September 30*, 2007, and for Other Purposes, 110<sup>th</sup> Cong., 1<sup>st</sup> sess., March 22, 2007, S.Rept. 110-37.

<sup>&</sup>lt;sup>16</sup> U.S. Congress, House Committee on Appropriations, *Division H - Department of State, Foreign Operations, and Related Programs Appropriations Act, 2009*, committee print, 111<sup>th</sup> Cong., 1<sup>st</sup> sess., January 1, 2010.

<sup>&</sup>lt;sup>17</sup> U.S. Congress, House Committee on Appropriations, *Military Construction and Veterans Affairs and Related Agencies Appropriations Act*, 2012 Conference Report, 112<sup>th</sup> Cong., December 15, 2011.

<sup>&</sup>lt;sup>18</sup> USAID, "Persons with Disabilities Support Program," press release, December 2013, http://www.usaid.gov/vietnam/persons-with-disabilities-support-program.

Following consultations with the Ministry of Labour, Invalids, and Social Affairs (MOLISA), Congress, and other interested parties, as of FY2014, USAID has reportedly returned to directly obligating funds for health and disability related services in smaller amounts and increased its outreach to Vietnamese non-governmental organizations. For more about USAID's disability programs in Vietnam, see "Disability Programs" below.

An internal USAID audit of the remediation project conducted in November 2014 indicated that six contracts have been awarded for the environmental assessment and remediation project at Danang airport, plus an assessment of Bien Hoa airbase (see **Table 3**). Three of the awarded contracts correspond to the amounts provided by USAID in **Table 2**, but three do not, probably reflecting work beyond FY2013.

# **Danang Airport Environmental Remediation Project**

One of the main activities financed by congressional appropriations related to Agent Orange/dioxin in Vietnam is the environmental remediation project at Danang Airport. The project, however, has experienced delays in implementation, unexpected increases in the amount of material requiring decontamination, and rising costs. While USAID's initial intent was to complete the project by October 2013, a November 2014 U.S. government audit indicated that the estimated completion date for the project was March 31, 2017. The amount of material to be decontaminated has risen from 61,700 m³ to approximately 80,000 m³. The cost of the project has increased from an estimated \$33.7 million to \$88 million.

The joint military/civilian airport in Danang was a major operational hub for the U.S. military's Operation Ranch Hand. One study of Danang airbase found soil concentrations of "TCDD toxic equivalents" (TEQ) of up to 365 parts per billion (ppb)—365 times the international maximum level of 1.0 ppb<sup>20</sup> Seventeen out of the 23 soil samples taken at Danang airbase exceeded the international maximum standard.<sup>21</sup>

Work on the project began in December 2009, when the State Department and Vietnam's Ministry of Natural Resources and the Environment (MONRE) signed a memorandum of understanding (MOU) setting the framework for implementing environmental health and remediation programs in Danang.<sup>22</sup> The MOU designated USAID and Office 33 as the implementing agencies. According to a State Department press release, the MOU covered \$6.0 million in funds appropriated in fiscal years 2007 and 2009.<sup>23</sup> Among the activities included in the MOU was a grant to CDM International, Inc., in association with Hatfield Associates, to design an environmentally sound engineering approach to dioxin containment at Danang Airport.

In June 2010, USAID completed an Environmental Assessment (EA) of Danang airport that recommended the use of thermal desorption to decontaminate an estimated 61,700 cubic meters

<sup>&</sup>lt;sup>19</sup> Office of Inspector General, USAID, *Audit of USAID/Vietnam's Environmental Assessments and Remediation Project*, No, 5-440-15-001-P, Manila, Philippines, November 12, 2014.

<sup>&</sup>lt;sup>20</sup> T.G. Boivin, K.S. Le, L.W. Dwernychuk, M.H. Tran, G.S. Bruce, N.H. Minh, N.T. Tran, K.S. Trinh, T.D. Phung, D. Moats, J.A. Allen, L. Borton, and M. Davies, "Agent Orange Dioxin Contamination in the Environment and Human Population in the Vicinity of Danang Airbase, Viet Nam," Hatfield Consultants, Ltd.

<sup>&</sup>lt;sup>21</sup> Ibid.

<sup>&</sup>lt;sup>22</sup> U.S. Embassy in Hanoi, "US and Vietnam Sign Agreement on Dioxin Environmental Health and Remediation Programs," press release, December 16, 2009, http://vietnam.usembassy.gov/pr121609.html.

<sup>&</sup>lt;sup>23</sup> Ibid.

(m<sup>3</sup>) of contaminated material in six separate "hotspots" at the airport.<sup>24</sup> The EA estimated that the decontamination would take two years to complete at a cost of \$33.7 million, but noted that implementation would present "challenges" that could increase the cost by 50%.

USAID and Vietnam's Ministry of National Defence (MND) signed a Memorandum of Intent in Hanoi on December 30, 2010, with the goal of starting the remediation project in the summer of 2011 and completing the project by October 2013.<sup>25</sup> The Prime Minister approved the remediation of Danang airport by in-pile thermal desorption (IPTD) in February 2011, and MND approved the project in April 2011.

USAID posted a Request for Proposals (RFP #486-11-028) in May 2011 for bids on the project. In July 2012, USAID awarded two contracts for the environmental remediation of Danang airport by IPTD. CDM Smith, a U.S. firm headquartered in Massachusetts, was granted \$8.37 million for project oversight and construction management. Tetra Tech, Inc., headquartered in California, was awarded \$17 million for the excavation and construction components of the project. A ceremony to launch the Danang airport environmental remediation project was held at Danang airport on August 9, 2012; onsite work began on August 20, 2012.

The thermal desorption of the contaminated soil is to be done in two, or possibly three, phases due to the amount of material involved. The gradual heating of Phase 1, which involves the treatment of approximately 45,000 m<sup>3</sup> of soil contained in an area 70 meters wide and 100 meters

long (about the size of a football field) and 8 meters (26 feet) high, began in April 2014. The cooling down of Phase 1 started April 2015, after soil sampling revealed that more than 95% of the dioxin had been removed. Excavation for Phase 2, which involves the draining of three small lakes and the removal of the exposed lake beds, began in January 2015. The treatment of Phase 2 soil will begin after Phase 1 soil has cooled down and is removed from the treatment area. Phase 2 soil is being stored at a temporary location until it can be treated.

#### In-pile Thermal Desorption

In-pile thermal desorption is a relatively new technology for dioxin decontamination of soil that has been used in Japan and the United States. The contaminated soil and sediment is enclosed in an above-ground pile in which heating rods and evacuation tubes have been placed. The soil is then raised to a temperature of at least 335°C (635°F), which breaks the molecular bonds holding the dioxin together, causing the dioxin to decompose into other, harmless substances, primarily CO<sub>2</sub>, H<sub>2</sub>O and Cl<sub>2</sub>. The evacuation tubes capture any vaporized dioxin, and send it to a secondary treatment facility that decomposes the dioxin.

Progress on the decontamination of Danang airport has been delayed by several factors. Weather during Vietnam's rainy season (September to December) has hampered progress on the excavation of soil and the construction of the thermal treatment area. Soil testing following the drainage of the small lakes determined more soil and sediment would require decontamination than previously estimated. The secondary treatment facility was shut down in July 2014 to change the filtering system. It seemingly took more time than anticipated to raise the ambient temperature of the Phase 1 soil to the target 335°C.<sup>27</sup>

<sup>&</sup>lt;sup>24</sup> The EA is available online at http://www.agentorangerecord.com/images/uploads/EA%20DNG.pdf.

<sup>&</sup>lt;sup>25</sup> "Memorandum of Intent between the United States Agency for International Development and the Department of Science, Technology, and Environment, Ministry of National Defense of Vietnam on Environmental Remediation of Dioxin Contamination at Danang Airport Cite, Vietnam," December 30, 2010.

<sup>&</sup>lt;sup>26</sup> U.S. Consulate in Ho Chi Minh CIty, "U.S. Awards Contracts to Implement Agent Orange/Dioxin Remediation Project in Danang," press release, July 3, 2012, http://hochiminh.usconsulate.gov/pr07032012.html.

<sup>&</sup>lt;sup>27</sup> Water infiltration during the rainy season is reportedly a contributing factor.

USAID's Office of Inspector General conducted an internal audit of the environmental remediation project in November 2014, and noted several potential risks that could delay the project and, by extension, raise its overall cost, including the problems associated with inclement weather and cooling the treated soil. <sup>28</sup> The audit particularly noted the lack of a formal risk management plan to address some of the project risks identified by USAID and the project's contractors, and recommended that a formal risk management plan be implemented. The audit also cited CDM for providing inaccurate performance data and not fulfilling its obligations to provide training to Vietnamese officials, and recommended that more training be provided and better data documentation procedures be adopted. USAID agreed with all of the audit's recommendations.

# **Disability Programs**

USAID has, in general, utilized the funds Congress appropriated for health/disability activities in areas sprayed with Agent Orange or otherwise contaminated with dioxin as part of its overall program to provide support for persons with disabilities in Vietnam, regardless of the cause of the disability or proximity to Agent Orange "hot spots." According to USAID, starting in 1989 with a program financed by the Leahy War Victims Fund, <sup>29</sup> the U.S. government has provided over \$60 million in assistance to disabled Vietnamese, regardless of the cause of the disability. This assistance includes funds specifically appropriated for health services in areas located near Agent Orange/dioxin contaminated sites and other sources of developmental or health assistance.

Between fiscal years 2007 and 2010, the State Department and USAID utilized the funds appropriated for health services for grants to various agencies to offer programs to improve the quality of life for persons with disabilities in Danang.<sup>30</sup> A December 2010 USAID assessment of these grants noted the "many accomplishments" of these programs, but also noted that the three-year time period was "very short for meeting program objectives."<sup>31</sup>

In 2012, USAID approved a three-year, nationwide Persons with Disability Support Program (PDSP) to be jointly implemented with Development Alternatives, Inc. (DAI) and Vietnam Assistance for the Handicapped (VNAH). The request for applications (RFA) for the project indicated that the program was intended to "build on the accomplishments of the previous USAID assistance to people with disabilities (PWD) living in communities in Danang, as well as include additional relevant public health activities." The project's geographic focus was to be primarily

<sup>&</sup>lt;sup>28</sup> Office of the Inspector General, *Audit of USAID/Vietnam's Environmental Assessments and Remediation Project*, U.S. Agency for International Development, Audit Report No. 5-440-15-001-P, Manila, Philippines, November 12, 2014

<sup>&</sup>lt;sup>29</sup> For more about the Leahy War Victims Fund, see http://www.usaid.gov/documents/1866/programs-vulnerable-populations-leahy-war-victims-fund.

<sup>&</sup>lt;sup>30</sup> For example, the East Meets West Foundation was awarded grants for medical and social screening for people with disabilities, corrective surgery, physical therapy and rehabilitation services, scholarships for children with disabilities, and community-based rehabilitation. USAID provided funding to Save the Children in 2009 to expand employment and income-generating activities for people with disabilities and their families living in Danang. USAID also granted funds to the Vietnam Assistance for the Handicapped to help people with disabilities and their families living in Danang improve their social and economic status and integration, and help local authorities, health service providers, disabled organizations, and others develop and enforce programs that increase resources for disability. For more information, see CRS Report RL34761, *Vietnamese Victims of Agent Orange and U.S.-Vietnam Relations*, by Michael F. Martin, pp. 11-14.

<sup>&</sup>lt;sup>31</sup> USAID, USAID/Vietnam: Disabilities and Health Assessment, Report No. 10-01-419-12, December 2010.

<sup>&</sup>lt;sup>32</sup> U.S. Agency for International Development, *Program for Comprehensive and Integrated Support for People with Disabilities*, USAID-Vietnam-RFA-486-12-007, December 30, 2011.

in Danang, and "to some extent other areas, proposed by the Recipient, where there is a high disability burden, the need is the greatest, and in regions where dioxin hot spots are located." The RFA specifically calls for a needs assessment to be conducted in Bien Hoa and Phu Cat. Funding for PDSP was initially set at \$9 million.

As part of PDSP's cooperative agreement, DAI was to award grants to local partners and organizations providing assistance to persons with disabilities, including health services, rehabilitation therapy, vocational training, and community awareness. In addition, USAID provided assistance to VNAH to work on disability policy and legal framework needs of the Government of Vietnam.

The PDSP program was headquartered in Danang, and initially operated in the provinces of Binh Dinh, Danang, and Dong Nai—where the three dioxin "hot spots" of Phu Cat, Danang, and Bien Hoa (respectively) are located. According to a June 2015 USAID update, the PDSP program has been extended to the provinces of Quang Nam, Tay Ninh, and Thua Thien-Hue.<sup>33</sup> According to the Aspen Institute, all three provinces were heavily sprayed with Agent Orange during the Vietnam War, but have not been identified as "hot spots."<sup>34</sup> A USAID summary of the program after two years reported that "nearly US\$900,000 in grants to 14 local partners and organizations" had been awarded.<sup>35</sup>

In June 2014, USAID adopted a new approach to the provision of assistance to persons with disabilities in Vietnam. According to the USAID statement, one of the key objectives of USAID assistance to Vietnam is to foster expanded opportunities to vulnerable populations, such as persons with disabilities. To that end, USAID aims "to address key challenges for persons with disabilities through provision of direct assistance to improve health, independence, and participation in economic and social life."

In addition to continuing to support changes in Vietnam's disability policies, USAID will finance the provision of physical, occupational, and speech therapies to persons with disabilities, as well as provide training to Vietnamese practitioners and technicians in the delivery of such services. Target areas for these programs are to be locations "where disability prevalence and poverty rates are high;" Among the identified locations are the provinces of Binh Dinh, Binh Phuoc, Dong Nai, Quang Nam, Tay Ninh, Thai Binh and Thua Thien-Hue. All these provinces have been identified by the Aspen Institute as heavily sprayed areas, except Thai Binh. "USAID, in consultation with various Vietnamese agencies, will directly administer the new approach."

## Bien Hoa Airbase

With the environmental cleanup of Danang airport well underway, the two governments have begun jointly to explore undertaking a similar cleanup of the dioxin "hot spot" located at the Bien Hoa airbase. Bien Hoa airbase was the airport used for the most Agent Orange spraying missions

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<sup>&</sup>lt;sup>33</sup> U.S. Agency for International Development, "Persons with Disabilities Support Program," press release, June 2015.

<sup>&</sup>lt;sup>34</sup> Aspen Institute, "Visit Maps of Heavily Sprayed Areas and Dioxin Hot Spots," http://www.aspeninstitute.org/policy-work/agent-orange/what-agent-orange/map-dioxin.

<sup>&</sup>lt;sup>35</sup> U.S. Agency for International Development, "Persons with Disabilities Support Program (PDSP): Project Year Two Brief," press release, December 2014.

<sup>&</sup>lt;sup>36</sup> U.S. Agency for International Development, "New Forward-Thinking Disabilities Assistance Approach," press release, June 4, 2014.

<sup>&</sup>lt;sup>37</sup> Aspen Institute, "Visit Maps of Heavily Sprayed Areas and Dioxin Hot Spots," http://www.aspeninstitute.org/policy-work/agent-orange/what-agent-orange/map-dioxin.

during the war, and is where the most herbicide was stored and used by the U.S. military. One study of soil samples from the Bien Hoa airbase found a sample with a TEQ concentration at over 1,000 ppb—higher than typical samples at the Danang airbase, and 1,000 times higher than the international limit.<sup>38</sup>

The Vietnamese government has already conducted some mitigation measures to contain the dioxin contamination at Bien Hoa. A passive landfill (in which the contaminated soil is left untreated) containing 43,000 m³ of contaminated soil excavated from the herbicide storage area was completed in 2009. However, the airbase has several other distinct dioxin "hot spots" that have not been addressed, according to a study conducted by a private consulting firm, Hatfield Consultants, hired by Office 33.<sup>39</sup> The study also determined that contaminated soil had spread from the "hot spots" into nearby lakes, ponds, creeks, and drainage ditches, increasing the amount of soil and sediment that will require treatment.

The United Nations Development Programme (UNDP) has been working with Office 33 and MONRE for five years to map out the dioxin contamination at Bien Hoa airbase, and develop a master plan for dioxin remediation. <sup>40</sup> According to their joint investigation, approximately 250,000 cubic meters of soil will require decontamination with an estimated cost of at least \$250 million.

In September 2013, USAID contracted CDM International Inc. to conduct an environmental assessment of the Bien Hoa airbase to examine a number of dioxin remediation alternatives. CDM International Inc. is partnering with Hatfield Consulting on the project. Field soil sampling began in November 2014. The assessment is scheduled to be completed in 2016. USAID is working closely with MONRE and MND on the assessment project.

# **Issues Before Congress**

Congressional interest in Agent Orange/dioxin in Vietnam has largely been focused on two issues. The first issue is determining the appropriate amount and type of assistance to provide to address the environmental damage and the health effects of dioxin contamination in Vietnam. The second issue is oversight of how such assistance has been utilized by the State Department and USAID.

### **Funding Assistance**

Congress and the Obama Administration have demonstrated a common interest in providing assistance to address the environmental remediation of Agent Orange and dioxin in Vietnam. The State Department has regularly requested funding for decontamination of dioxin "hot spots" in Vietnam in its budget request to Congress. For FY2016, the State Department has requested \$15.0 million under the Economic Support Fund (ESF) to continue the IPTD project at Danang airport.

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<sup>&</sup>lt;sup>38</sup> By comparison, the maximum concentration of TCDD found at Love Canal, NY, was 17,200 ppb; at Times Beach, MO, the maximum concentration was 1,750 ppb. Both U.S. communities were evacuated after evidence of dioxin contamination was found.

<sup>&</sup>lt;sup>39</sup> The study was conducted in 2011with funding provided by the Ford Foundation. Data on Bien Hoa airbase in this section largely come from Hatfield's report, "Environmental and Human Health Assessment of Dioxin Contamination at Bien Hoa Airbase, Viet Nam: Final Report," August 2011.

<sup>&</sup>lt;sup>40</sup> For more details, see http://www.vn.undp.org/content/vietnam/en/home/presscenter/pressreleases/2014/10/21/dioxin-contamination-in-bien-hoa-airbase-status-and-plan-for-future-work.html.

As described above, Congress has generally appropriated funds for health and disability services for persons residing in areas sprayed by Agent Orange and otherwise contaminated with dioxin. The State Department and USAID have utilized those funds for various programs for persons with disabilities regardless of the cause. In many, but not all cases, those programs were conducted in locations near known Agent Orange "hot spots." President Obama's budget request to Congress has not included funding requests explicitly for health and disability assistance programs for areas sprayed with Agent Orange or otherwise contaminated with dioxin. The budget requests have been for disability programs and/or "vulnerable groups." For example, the FY2016 budget request includes \$4.75 million of Development Assistance (DA) funding for "social and economic services and protection for vulnerable populations."

The Senate version of the Department of State, Foreign Operations, and Related Programs Appropriations Act, 2016 (S. 1725) would appropriate not less than \$25.0 million under ESF "for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes." In addition, it would provide not less than \$7.0 million "for health and disability programs in areas sprayed with Agent Orange and otherwise contaminated with dioxin, to assist individuals with severe upper or lower body mobility impairment and/or cognitive or developmental disabilities." The House version of the appropriations bill, H.R. 2772 contains no explicit appropriation for environmental remediation or health and disability programs related to Agent Orange or dioxin in Vietnam.

The Victims of Agent Orange Relief Act of 2015 (H.R. 2114) would "direct the Secretary of State, the Secretary of Health and Human Services, and the Secretary of Veterans Affairs to provide assistance for individuals affected by exposure to Agent Orange." Section 3 would require the Secretary of State to "provide assistance to address the health care needs of covered individuals. Such assistance shall include the provision of medical and chronic care services, nursing services, vocational employment training, and medical equipment." "Covered individuals" is defined as Vietnamese residents affected by health issues related to their exposure to Agent Orange or the exposure of a parent or grandparent to Agent Orange. Section 3 also would require the Secretary of State provide assistance to "institutions in Vietnam that provide health care for covered individuals," and to "remediate those geographic areas of Vietnam that the Secretary determines contain high levels of Agent Orange." Section 4 would require the Secretary of State and the Secretary of Veterans Affairs "identify and provide assistance to support research relating to health issues of individuals affected by Agent Orange."

# Oversight of Assistance

Beyond determining the level of funding for environmental remediation and the provision of health services to Agent Orange/dioxin contaminated locations in Vietnam, Congress has overseen the utilization of appropriated funds. With regard to environmental remediation, Congressional oversight has focused on the rising cost associated with the ongoing clean-up effort at Danang airport, and the potential implications for funding for the proposed clean-up of Bien Hoa. With regard to USAID's provision of related health services, congressional oversight has focused on what some Members perceive to be a slow pace at which available funds are being obligated and changes in USAID's approach to administering those funds.

As noted above, the estimated cost of the environmental remediation of Danang airport has risen from \$33.7 million in 2010 to \$88 million in 2015, and the actual cost of the completed project is likely to be higher. Members could raise the cost overruns at Danang airport when Congress looks ahead to possibly funding a similar environmental remediation project at Bien Hoa airport, where preliminary assessments indicate that 250,000 m<sup>3</sup> of soil—more than twice the amount at Danang—may be contaminated.

Although the Danang airport cleanup has experienced rising costs and delays, USAID has been able to keep the project going and the funding flowing. USAID has not been as successful in utilizing the funds provided for health services to areas contaminated with Agent Orange/dioxin. According to information provided by USAID, less than two-thirds of the funds appropriated in fiscal years 2011 to 2013 have been obligated. In addition, USAID's approach to utilizing health services funds has shifted from direct obligation by USAID, to establishing a cooperative agreement to administer the funds, and back again to direct obligation by USAID. Some observers question whether the health services funds are being used effectively, and in accordance with congressional priorities. The specific language in S. 1725<sup>41</sup> and H.R. 2114<sup>42</sup> regarding health and/or disability assistance to Vietnam may in part reflect congressional dissatisfaction with the State Department and USAID management of previously appropriated funds.

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<sup>&</sup>lt;sup>41</sup> Section 7043(g) of S. 1725 states:

<sup>(1)</sup> DIOXIN REMEDIATION—Of the funds appropriated by this Act under the heading 'Economic Support Fund', not less than \$25,000,000 shall be made available for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes.

<sup>(2)</sup> HEALTH AND DISABILITY PROGRAMS—Of the funds appropriated by this Act under the heading 'Development Assistance', not less than \$7,000,000 shall be made available for health and disability programs in areas sprayed with Agent Orange and otherwise contaminated with dioxin, to assist individuals with severe upper or lower body mobility impairment and/or cognitive or developmental disabilities.

<sup>&</sup>lt;sup>42</sup> Section 3 of H.R. 2114 would require the Secretary of State to "provide assistance to address the health care needs of covered individuals," which includes residents of Vietnam who are either "affected by health issues related to exposure to Agent Orange" or "who lives or has lived in or near those geographic areas in Vietnam that continue to contain high levels of Agent Orange," and the children or descendants of such residents who are also affected by health issues.

# Appendix. Text of Public Laws Appropriating Funds for Environmental Remediation and Health and Disability Services in Vietnam

Congress has included language in legislation indicating that it is appropriating funds for environmental remediation and health and disability services in Vietnam. The precise amounts appropriated, however, in most cases have been stipulated in either an accompanying report or explanatory statement. The table below provides the relevant text in the public law, as well as the associated language in the accompanying report or explanatory statement.

Table A-I. Public Law and Relevant Text of Appropriations for Agent Orange/Dioxin Related Activities in Vietnam

	Related Activities in	Victiaiii
Public Law Number	Text in Legislation	Text in Accompanying Report or Explanatory Statement
	Sec. 3807. (a) Funds provided in this Act for the following accounts shall be made available for countries, programs and activities in the amounts contained in the respective tables and should be expended consistent with the reporting requirements and directives included in the joint explanatory statement accompanying the conference report on H.R. 1591 of the 110 <sup>th</sup> Congress (H.Rept. 110-107).	H.Rept. 110-107: The conference agreement includes \$3,000,000 for environmental remediation and health activities in Vietnam, instead of \$3,200,000 as proposed by the Senate. The House did not include a similar provision. The conferees endorse language in the Senate report [S.Rept. 110-37; see also CRS Report RL34761, Vietnamese Victims of Agent Orange and U.SVietnam Relations, by Michael F. Martin] regarding this matter, and stipulate that prior to the obligation of these funds the Committees on Appropriations be consulted on the planned use of the funds. The conferees recommend that these funds be matched, to the maximum extent possible, with contributions from other public and private sources.
		S.Rept. 110-37: The Committee recommends \$3,200,000 for the remediation of dioxin contaminated sites in Vietnam, and to support health programs in communities near those sites.
P.L. 111-8	Sec. 7071. (h) Vietnam.—Notwithstanding any other provision of law, funds appropriated under the heading "Development Assistance" in this Act may be made available for programs and activities in the central highlands of Vietnam, and shall be made available for environmental remediation and related health activities in Vietnam.	Joint Committee Print (Division H): Vietnam.— The bill provides \$15,000,000 for assistance for Vietnam, which should focus on judicial and economic reform programs to strengthen the rule of law, protect human rights, and expand economic opportunities. Of this amount, \$3,000,000 is provided to continue environmental remediation of dioxin contamination at the Danang Airport and related health activities in nearby communities in Vietnam.

#### **Public Law** Text in Accompanying Report or Number **Text in Legislation Explanatory Statement** P.L. 111-117 Sec. 7071. (j) Vietnam—Funds appropriated by H.Rept. 111-366: Vietnam.—The conference this Act that are made available for assistance for agreement provides not less than \$3,000,000 for Vietnam for remediation of dioxin contaminated environmental remediation of dioxin sites and related health activities may be made contaminated sites and related health activities in available for assistance for the Government of Vietnam, including through Vietnamese Vietnam, including the military, for such institutions and organizations. The conferees purposes. direct the USAID Administrator to consult with the Committees on Appropriations prior to the obligation of funds for these purposes. P.L.111-212 S.Rept. 111-188: Vietnam.—The Committee Sec. 1002. (a) Funds appropriated in this chapter for the following accounts shall be made available recommends \$12,000,000 for assistance for for programs and countries in the amounts Vietnam to support the remediation of dioxin contained in the respective tables included in the contamination at the Danang Airport, which poses extreme risks to human health and report accompanying this Act: welfare, and related health activities. (I) "Diplomatic and Consular Programs". (2) "Economic Support Fund". (3) "International Narcotics Control and Law Enforcement". (b) << NOTE: Notification.>> For the purposes of implementing this section, and only with respect to the tables included in the report [S.Rept. 111-188] accompanying this Act, the Secretary of State and the Administrator of the United States Agency for International Development, as appropriate, may propose deviations to the amounts referred in subsection (a), subject to the regular notification procedures of the Committees on Appropriations and section 634A of the Foreign Assistance Act of 1961. P.L. 112-10 Sec. 2120.(c) Division F of Public Law 111-117 shall be applied to funds appropriated by this division under the heading "Bilateral Economic Assistance, Funds Appropriated to the President, Economic Support Fund"— 2) by adding at the end before the period the following: ": Provided further, That funds appropriated under this heading may be made available for activities to support the economic and social development and reconciliation goals of Public Law 99-415, and should not be made available for a contribution: Provided further, That not less than \$15,500,000 of the funds appropriated under this heading should be made available for remediation activities, and not less than \$3,000,000 should be made available for

related health activities, referenced in section

7071(j) of this Act."

Public Law Number	Text in Legislation	Text in Accompanying Report or Explanatory Statement
112-74	Sec. 7044. (h) Vietnam.—Funds appropriated under the heading "Economic Support Fund" shall be made available for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes, and funds under the heading "Development Assistance" shall be made available for related health/disability activities.	H.Rept. 112-331: Vietnam.—The conferees recommend not less than \$5,000,000 under this heading be made available for health/disability activities in areas in Vietnam that were targeted with Agent Orange or remain contaminated with dioxin. The conferees endorse Senate report language on consultation and the development of a multi-year plan.  Vietnam.—The conferees recommend not less than \$15,000,000 for environmental remediation of dioxin contamination at the Danang and Bien Hoa airports and other severely contaminated sites.
113-6	Division F—The following sums are hereby appropriated, out of any money in the Treasury not otherwise appropriated, and out of applicable corporate or other revenues, receipts, and funds, for the several departments, agencies, corporations, and other organizational units of Government for fiscal year 2013, and for other purposes, namely:  TITLE I. GENERAL PROVISIONS	
	Sec. 1101. (a) Such amounts as may be necessary, at the level specified in subsection (c) and under the authority and conditions provided in applicable appropriations Acts for fiscal year 2012, for projects or activities (including the costs of direct loans and loan guarantees) that are not otherwise specifically provided for, and for which appropriations, funds, or other authority were made available in the following appropriations Acts:	
	(b) The Department of State, Foreign Operations, and Related Programs Appropriations Act, 2012 (division I of Public Law 112–74).	
	(c) The level referred to in subsection (a) shall be the amounts appropriated in the appropriations Acts referred to in such subsection, including transfers and obligation limitations, except that such level shall be calculated without regard to any rescission or cancellation of funds or contract authority,	
113-76	Sec. 7043. (g) Vietnam.—Funds appropriated by this Act under the heading "Economic Support Fund" shall be made available for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes, and funds appropriated under the heading "Development Assistance" shall be made available for health/disphility activities in	Explanatory Statement: The agreement includes \$22,000,000 under Economic Support Fund for environmental remediation of dioxin contamination in Vietnam and an additional \$7,000,000 under this heading for health and disability programs in areas sprayed with Agent Orange or otherwise contaminated by dioxin.

made available for health/disability activities in areas sprayed with Agent Orange or otherwise

contaminated with dioxin.

Public Law Number	Text in Legislation	Text in Accompanying Report or Explanatory Statement	
Sec. 7043. (h) Vietnam.—Funds appropriated by this Act under the heading "Economic Support Fund" shall be made available for remediation of dioxin contaminated sites in Vietnam and may be made available for assistance for the Government of Vietnam, including the military, for such purposes, and funds appropriated under the heading "Development Assistance" shall be made available for health/disability activities in areas sprayed with Agent Orange or otherwise contaminated with dioxin.	Explanatory Statement: [In table listing allocation of Economic Support Fund (in thousands of dollars)] Vietnam (Environmental Remediation of dioxin) - \$15,000		
	The agreement provides \$2,507,001,000 for Development Assistance.		
	Vietnam.—Funds made available under this heading for assistance for Vietnam for health/disability activities should prioritize assistance for individuals with severe upper or lower body mobility impairment and/or cognitive or developmental disabilities.		
		[In table listing allocation of Development Assistance (in thousands of dollars)] Vietnam health/disability programs - \$7,500	

Source: CRS research.

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