



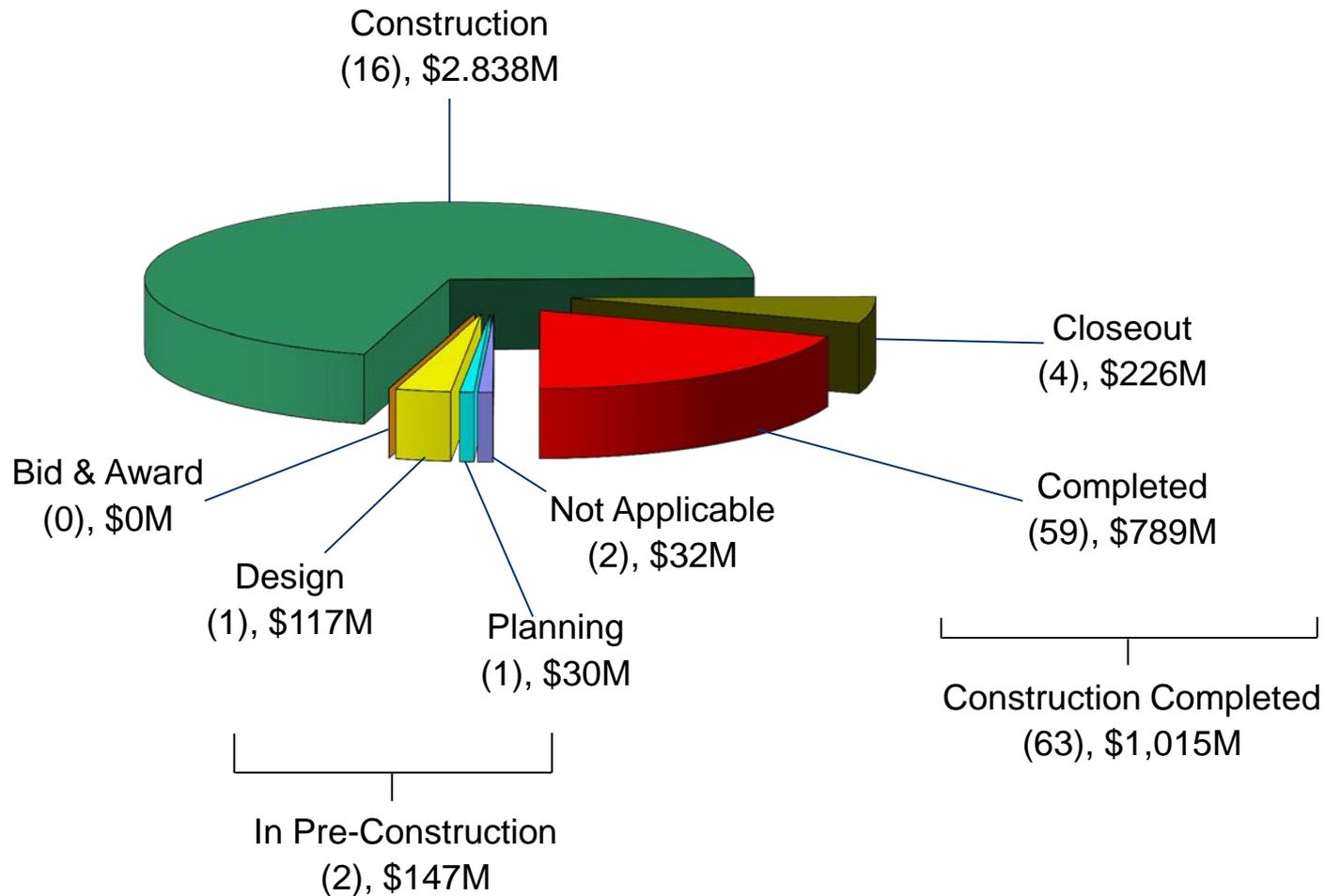
WSIP Quarterly Update **Q4 | FY 2013 – 2014**

Revenue Bond Oversight Committee

October 6, 2014
Daniel L. Wade, WSIP Director
Infrastructure

Program Status

As of June 30, 2014

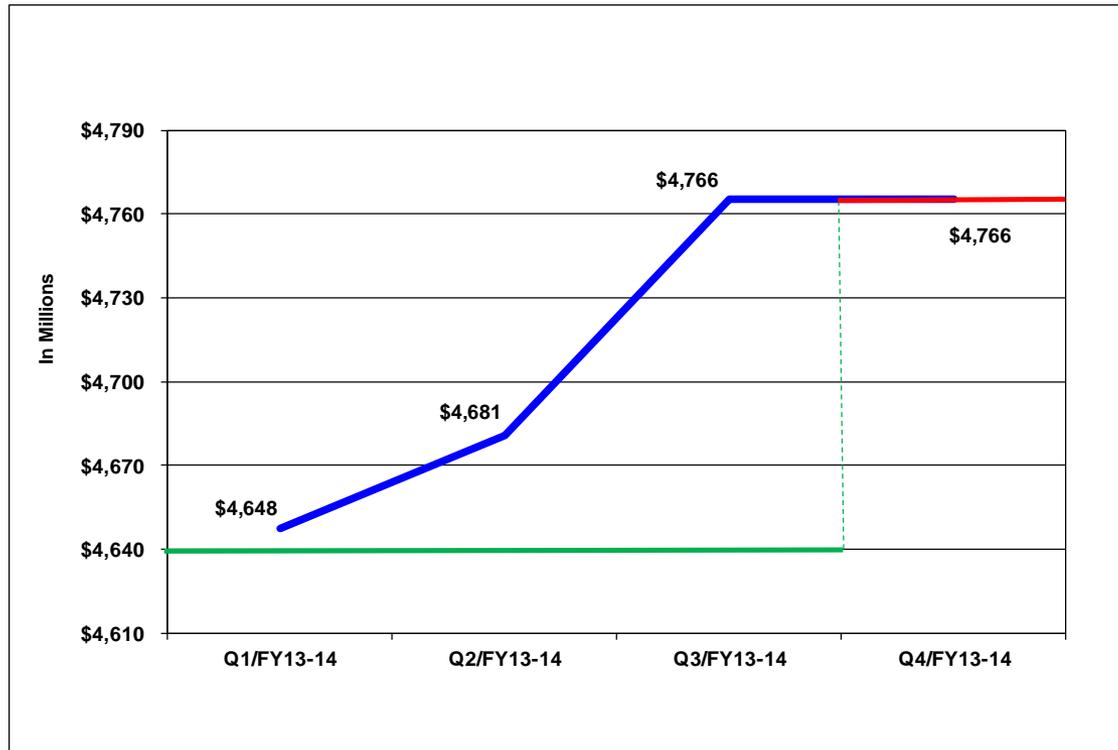




Accomplishments

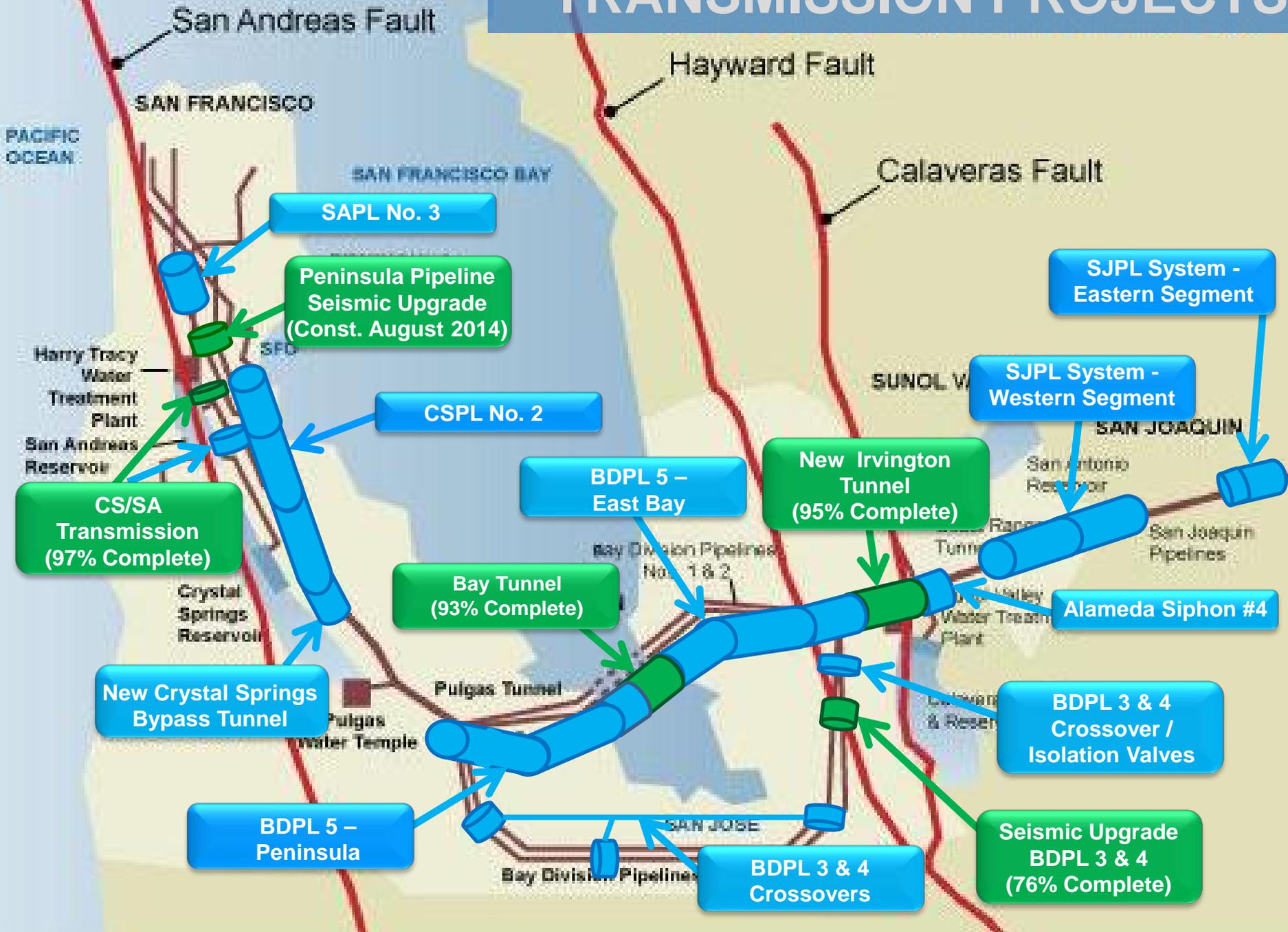
- Environmental Permitting Completed: Peninsula Pipelines Seismic Upgrade
- Issued Notice to Proceed for Construction Contracts:
 - Peninsula Pipelines Seismic Upgrade
 - Contract 3 - System Security Integration (SSI)
- Construction Substantially Completed: Crystal Springs / San Andreas Transmission Upgrade
- Project Completion: BDPL Nos. 3 & 4 Crossovers
- Safety record based on 6.4 million recorded hours
 - Lost Time Incidence Rate = 0.65 (vs Industry Average of 1.4)
- Completed 163 of 197 system shutdowns
- Achieved Level of Service (LOS) on 33 of 44 Regional Projects with LOS goals
- Published WSIP Staff Transition Plan
- Celebrated WSIP 10-Year milestone

Program Cost Trend



- = Forecasted Cost at Completion (Includes funding for Local Water Supply projects)
- = 2013 Approved Budget (Includes funding for Local Water Supply projects)
- = 2014 Approved Budget (Includes funding for Local Water Supply projects)

TRANSMISSION PROJECTS



Pre-Construction Update

- Alameda Creek Recapture
 - Continued work on the Conceptual Engineering Report
 - Work on project EIR to start in Fall 2014
- Peninsula Pipelines Seismic Upgrade
 - Notice to proceed issued April 28, 2014
- Regional Groundwater Storage and Recovery
 - Response to comments on Draft EIR issued July 2014
 - Final EIR certified August 7, 2014
 - Project Approval anticipated August 12, 2014
 - Advertise for Construction Bids September 2014



Calaveras Dam Replacement





CDRP Safety – 150,000 Hours Completed





New Irvington Tunnel



New Irvington Tunnel Pipe Installation





New Irvington Tunnel Pipe Buckling





Project Status

- Removed damaged section of tunnel lining
- Investigating the cause of pipe buckling
- Investigating areas of tunnel adjacent to damaged section and in other areas of tunnel where similar high groundwater inflows occurred during tunneling and grouting operations
- Developing a repair plan
- Implement repairs at damaged section of tunnel
- Repair other areas of tunnel, if necessary
- Current delay estimate: 2 to 4 months

Bay Tunnel



Seismic Upgrade BDPL Nos. 3 & 4



HTWTP Long-Term Improvements



WSIP

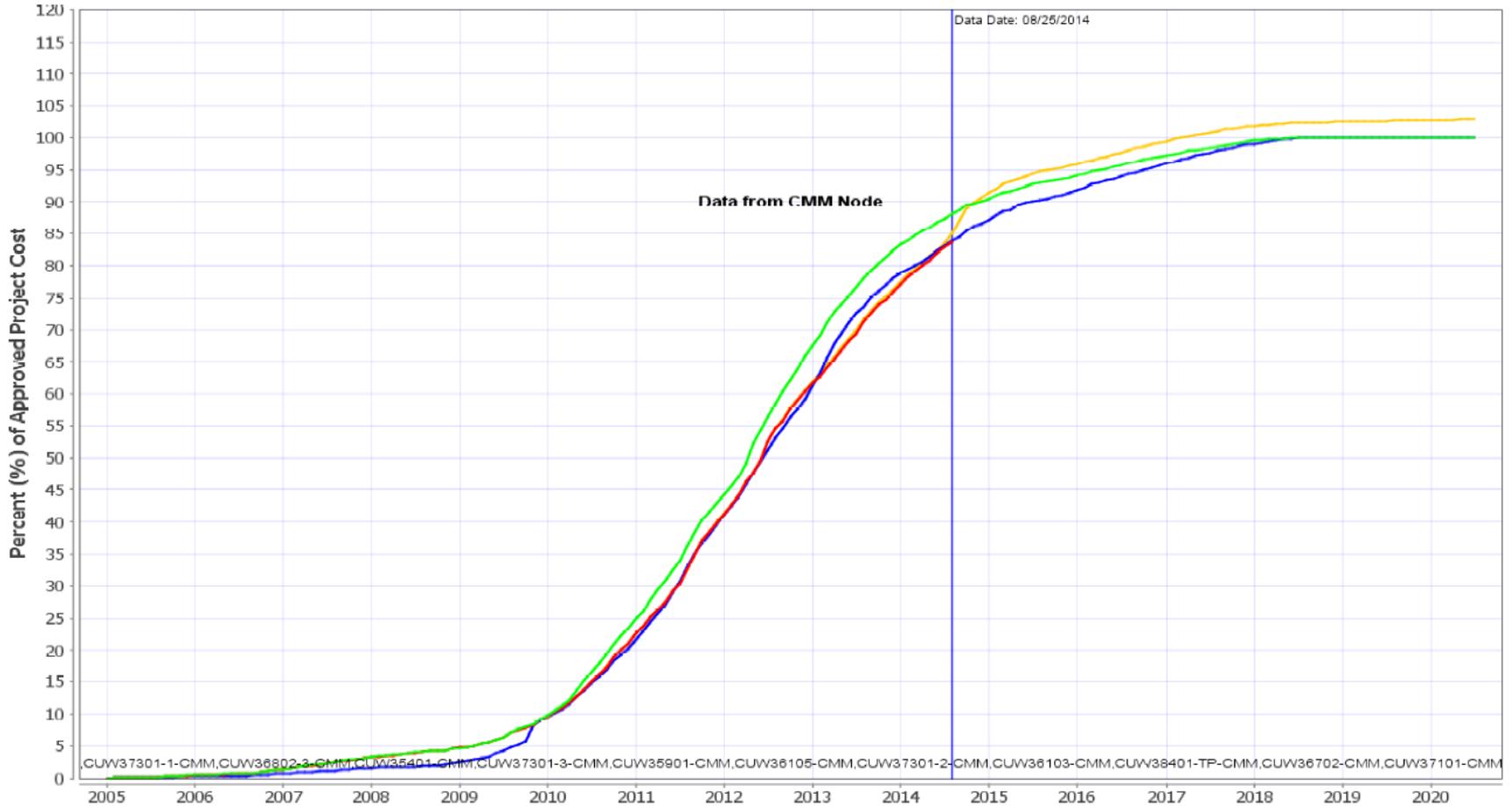
Regional Construction Program

Status of Active Construction Contracts

August 2014

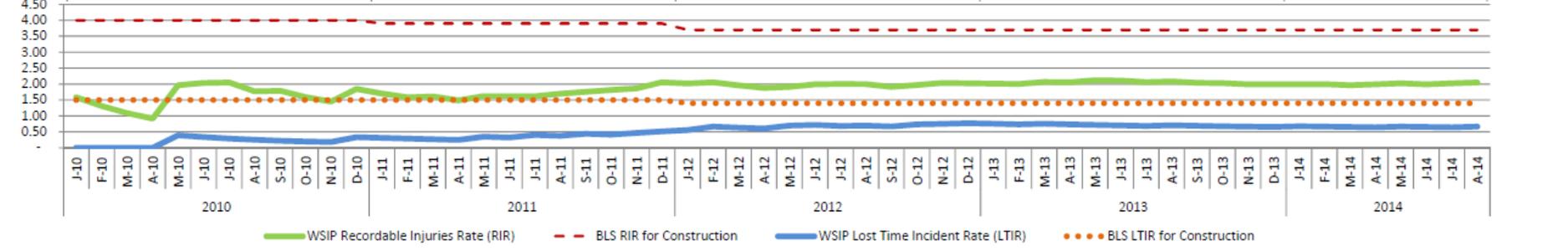
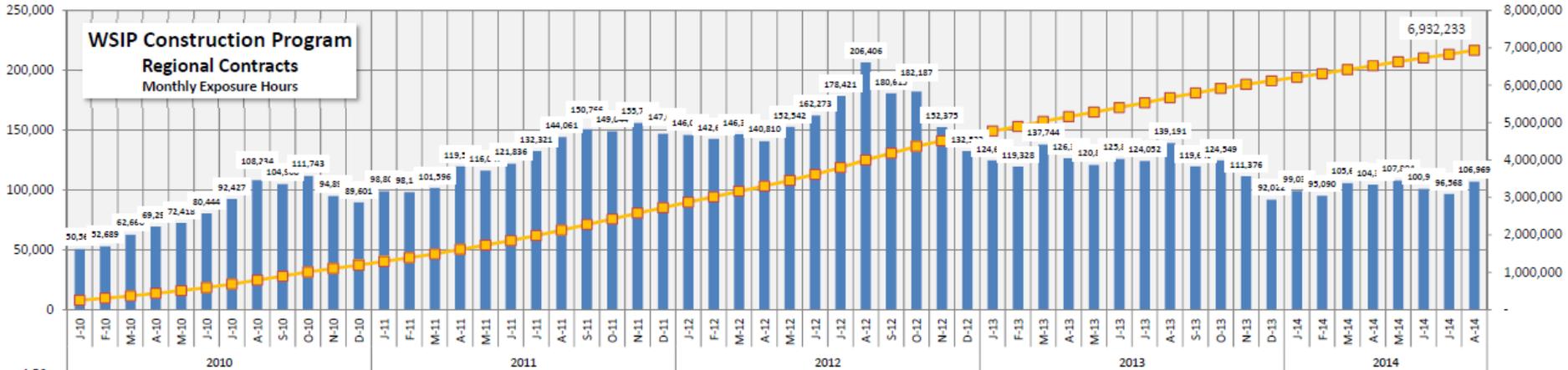
Planned vs. Actual Progress Performance

WSIP Construction Program: WSIP Construction Program



— Planned Cost Early Start — Actual Cost — Planned Cost Late Start — At Completion Cost

	Jun-2005	Jul-2005	Aug-2005	Sep-2005	Oct-2005	Nov-2005	Dec-2005	Jan-2006	Feb-2006	Mar-2006	Apr-2006	May-2006	Jun-2006	Jul-2006	Aug-2006	Sep-2006	Oct-2006	Nov-2006	Dec-2006	Jan-2007	Feb-2007	Mar-2007	Apr-2007	May-2007	Jun-2007	Jul-2007	Aug-2007	Sep-2007	Oct-2007	Nov-2007	Dec-2007	Jan-2008	Feb-2008	Mar-2008	Apr-2008	May-2008	Jun-2008	Jul-2008	Aug-2008	Sep-2008	Oct-2008	Nov-2008	Dec-2008	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011	Oct-2011	Nov-2011	Dec-2011	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Jan-2013	Feb-2013	Mar-2013	Apr-2013	May-2013	Jun-2013	Jul-2013	Aug-2013	Sep-2013	Oct-2013	Nov-2013	Dec-2013	Jan-2014	Feb-2014	Mar-2014	Apr-2014	May-2014	Jun-2014	Jul-2014	Aug-2014	Sep-2014	Oct-2014	Nov-2014	Dec-2014	Jan-2015	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-2015
Planned Cost Early Start	75.36%	76.8%	78.08%	79.13%	80.39%	81.29%	82.32%	83.35%	83.91%	84.56%	85.36%	86.04%	86.71%	87.45%	88.13%	88.7%	89.43%	89.74%	90.07%	90.54%	90.98%	91.37%	91.72%	92.05%	92.45%																																																																																																
Actual Cost	68.08%	69.41%	71.22%	72.58%	73.92%	74.85%	75.83%	77.08%	78.17%	79%	79.92%	80.85%	81.87%	82.9%	83.64%																																																																																																										
Planned Cost Late Start	71.02%	72.57%	73.66%	75.06%	76.19%	77.13%	77.97%	78.88%	79.46%	79.97%	80.62%	81.11%	82.27%	83.05%	83.84%	84.16%	85.39%	86.11%	86.58%	87.11%	87.95%	88.54%	88.82%	89.47%	89.83%																																																																																																
At Completion Cost	68.51%	69.85%	71.65%	73.02%	74.36%	75.29%	76.28%	77.54%	78.63%	79.46%	80.43%	81.48%	82.42%	83.41%	85%	87.13%	88.91%	89.92%	90.71%	91.38%	92.09%	92.72%	93.14%	93.5%	94.05%																																																																																																

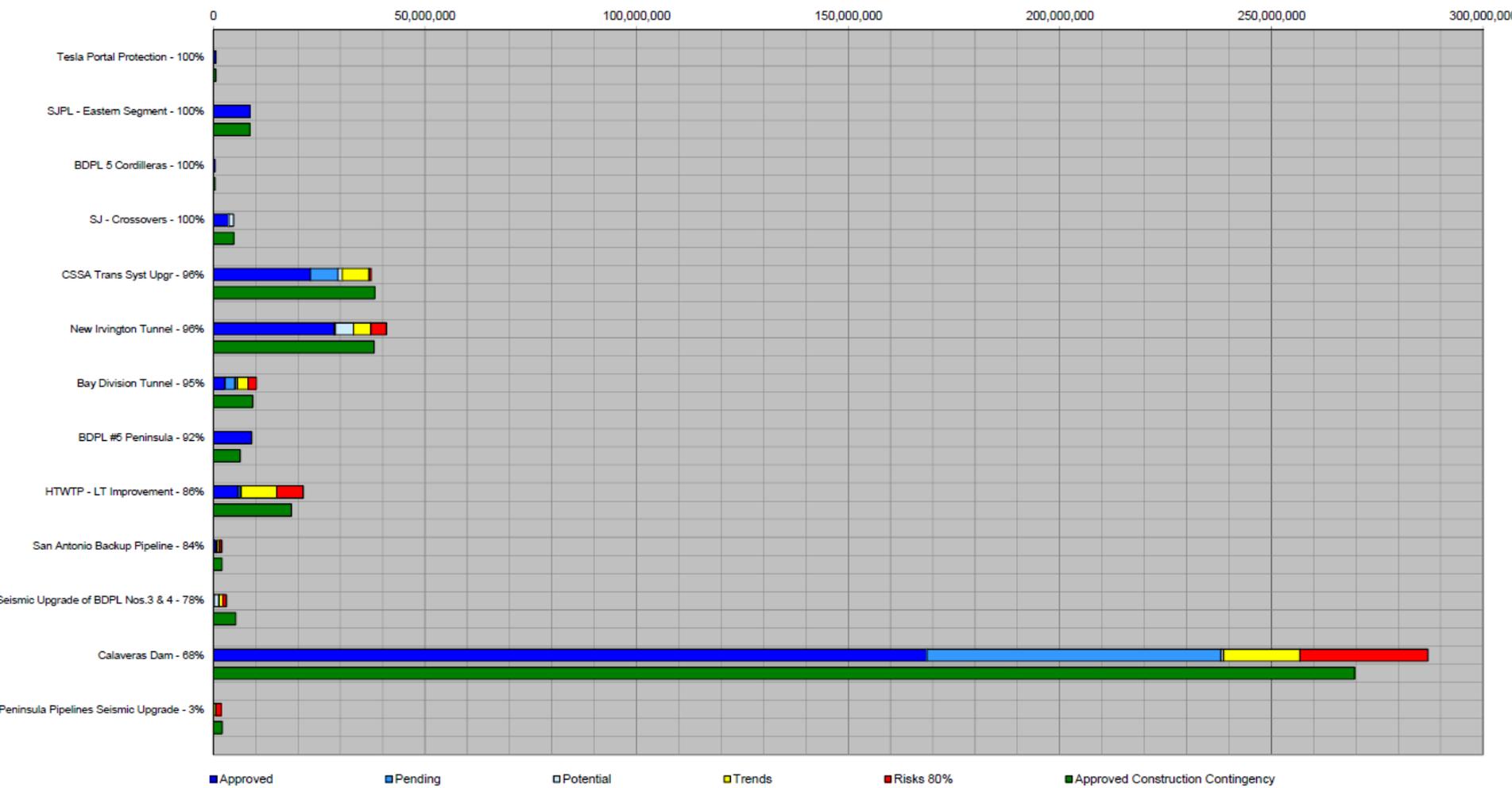


3.7 = Annual BLS construction industry national average Total Recordable Injury Incidence Rate (RIR) for 2012
 1.4 = Annual BLS construction industry national average Total Lost Time Incidence Rate (LTIR) for 2012

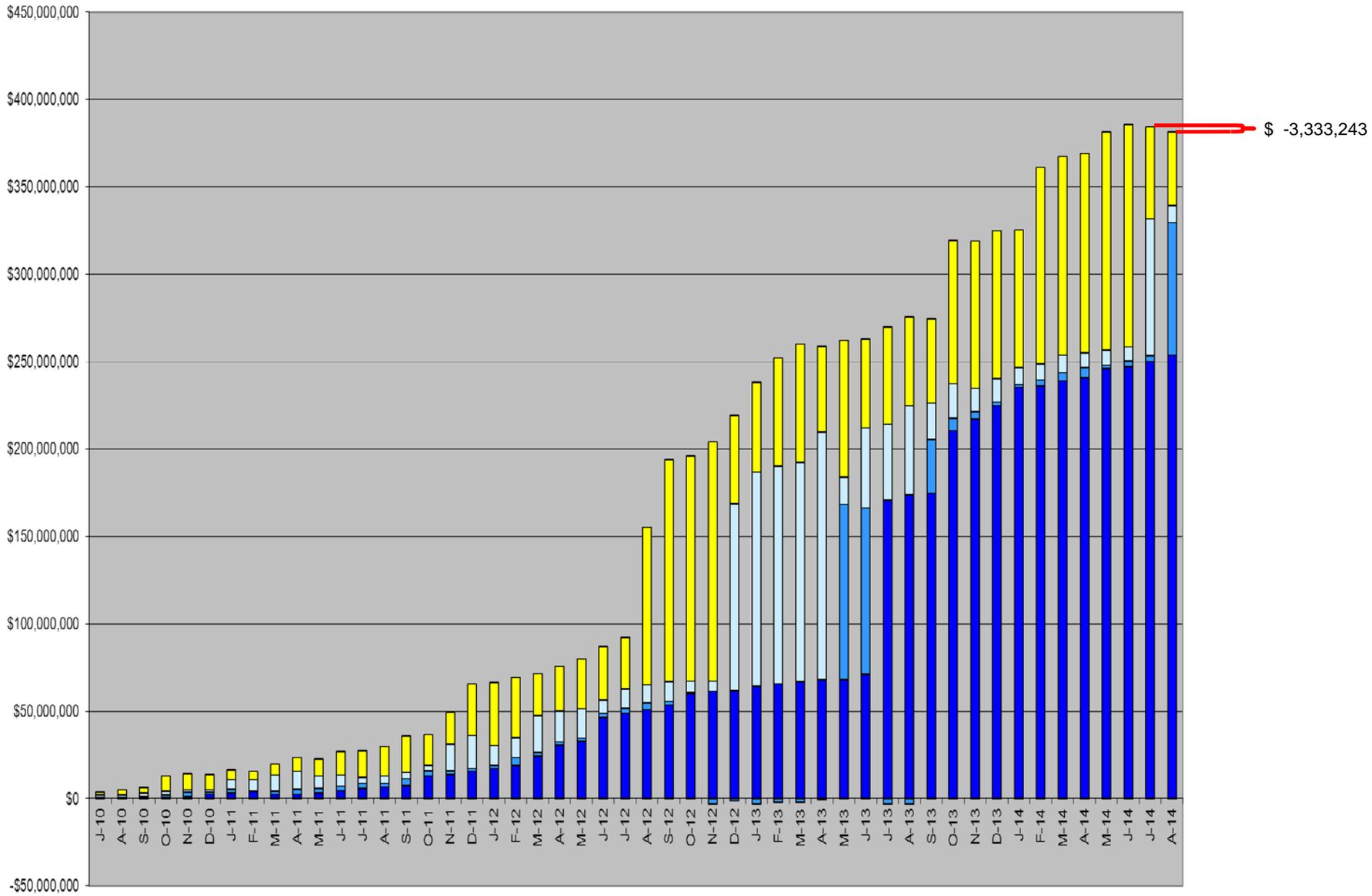
WSIP Active Construction Contracts

Approved, Pending, Potential COs, Trends, & Risks vs. Contingency
Status as of 8/31/2014

Note: Projects are ordered by Percent Complete



Change Orders + Trends

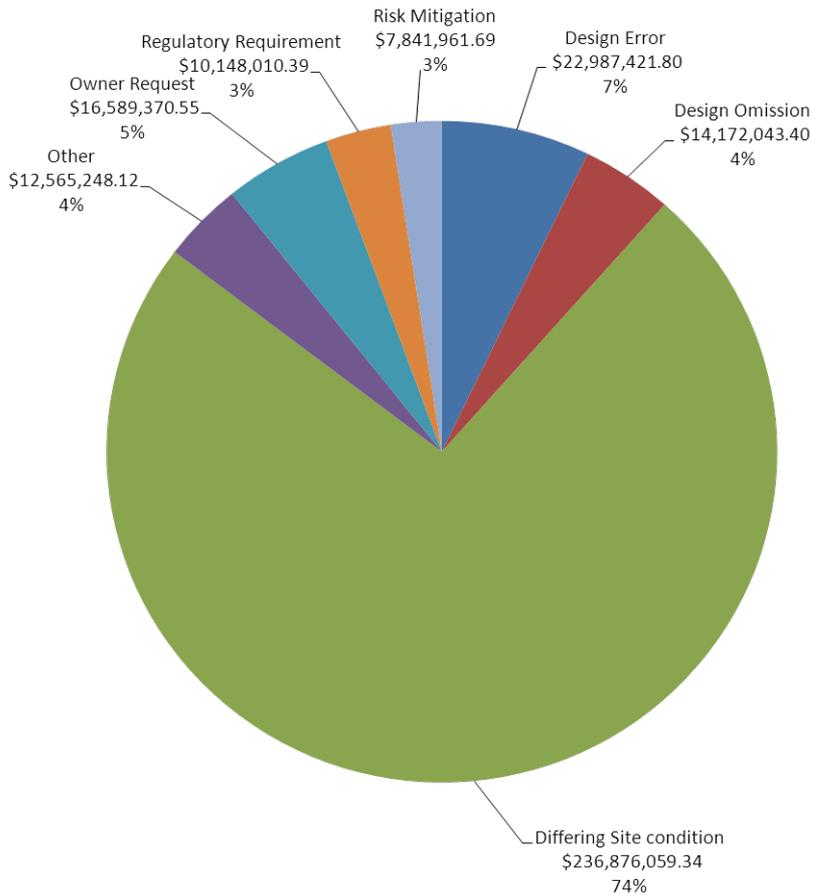


Change Order Reason

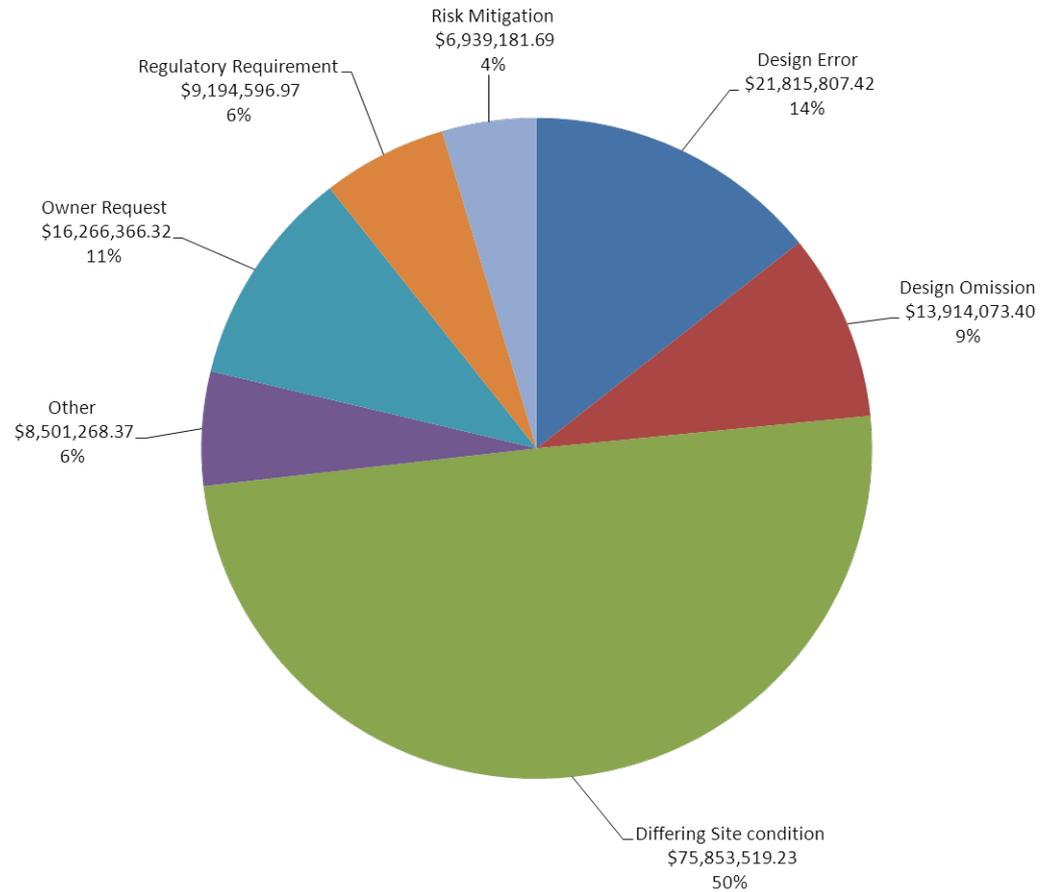
Approved Change Orders

August 2014

WSIP Total



WSIP Total Excluding CDRP



Note: Includes completed contracts and BHR contracts

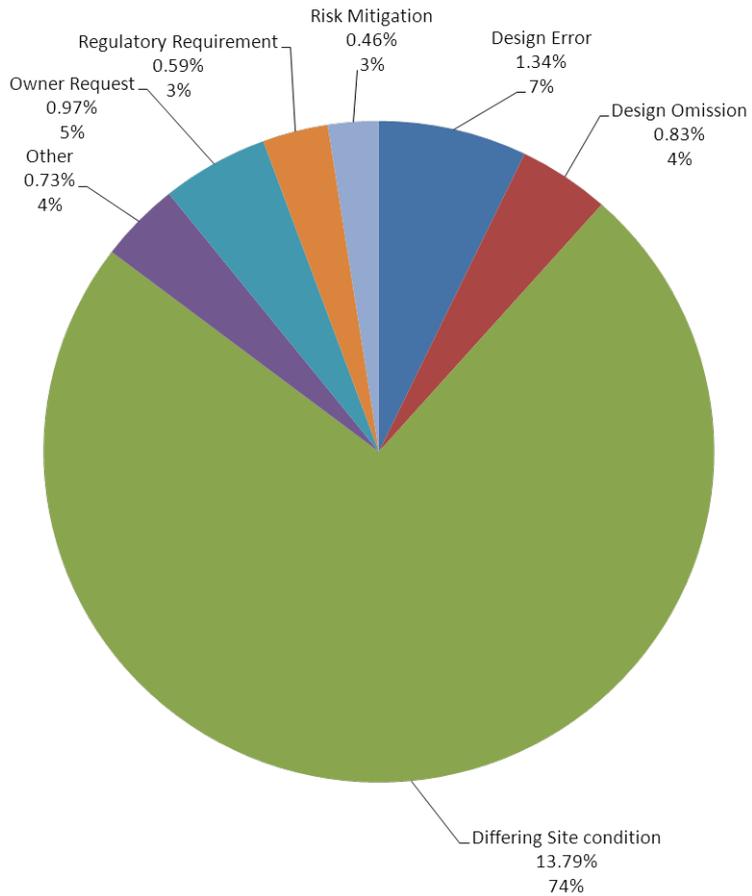
WSIP Regional Construction Contracts

Approved Change Order Categories

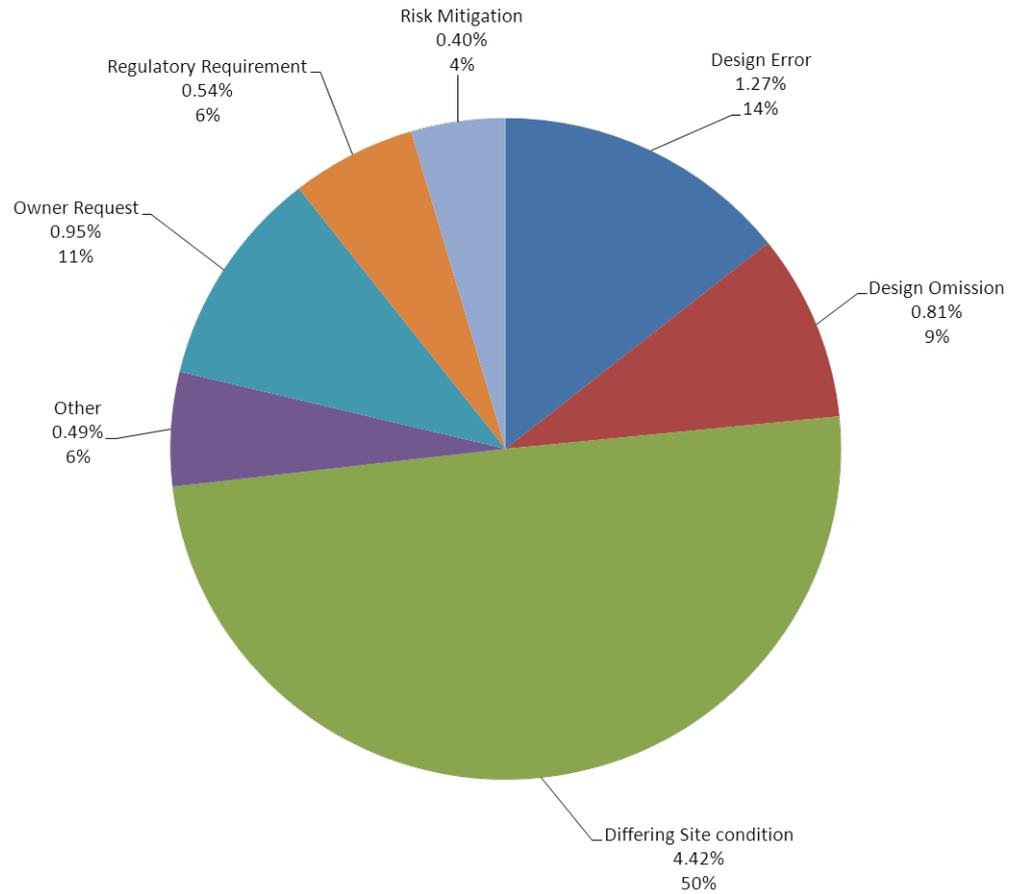
As a Percent of Contract Award

August 2014

WSIP Total
18.70%



WSIP Total
Excluding CDRP
8.88%

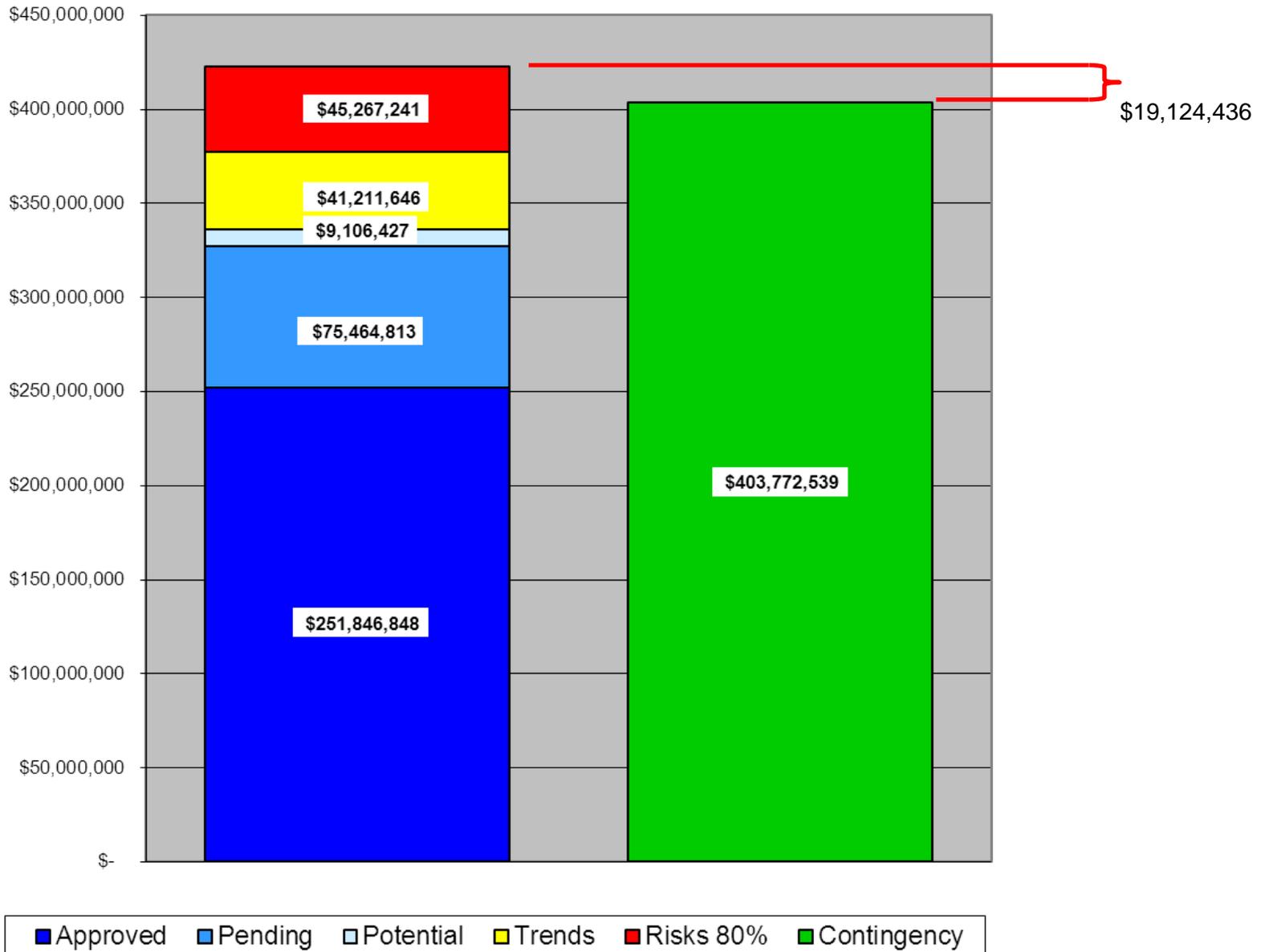


Note: Includes completed contracts and BHR contracts

WSIP Active Regional Construction Contracts

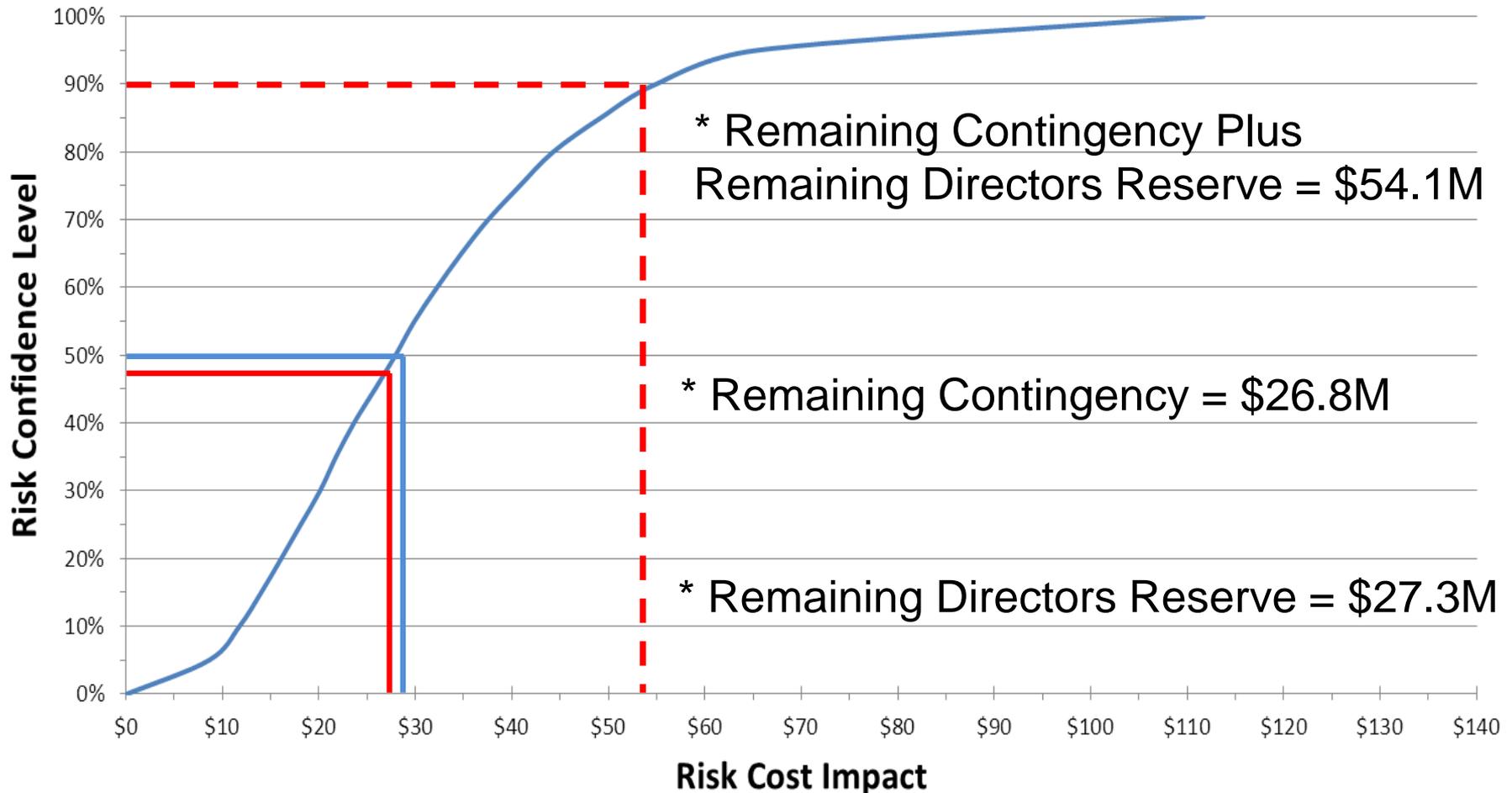
Change Orders, Trends, and Risks vs. Contingency

As of 8/31/2014



Remaining WSIP Risks for Active Construction Projects

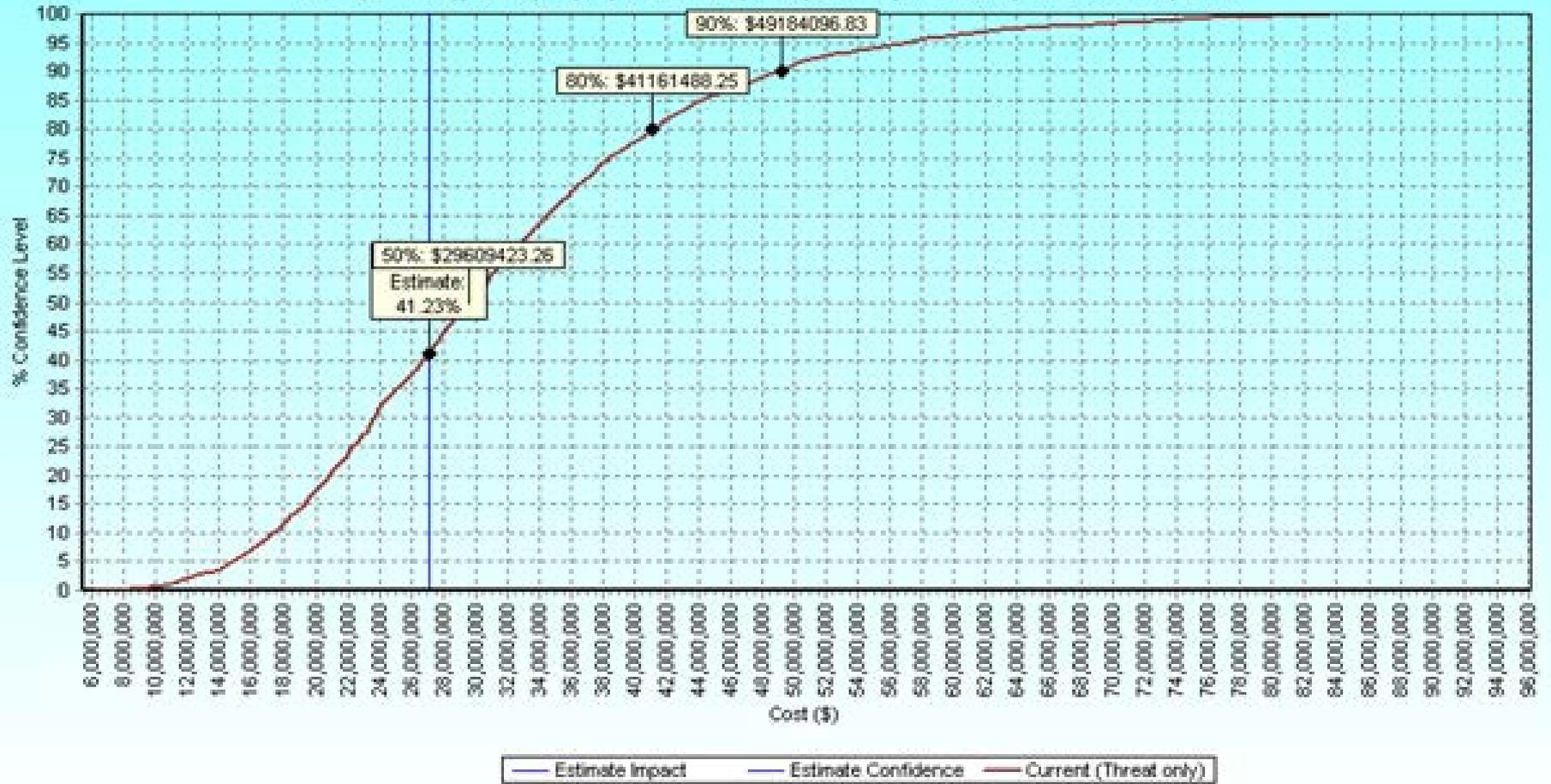
Cumulative Confidence Level For Remaining WSIP Risks



Cumulative Results for Cost Impact of WSIP on 10 Sep 2014

100 Slices, 2000 Iterations, Random Seed (1410365798)

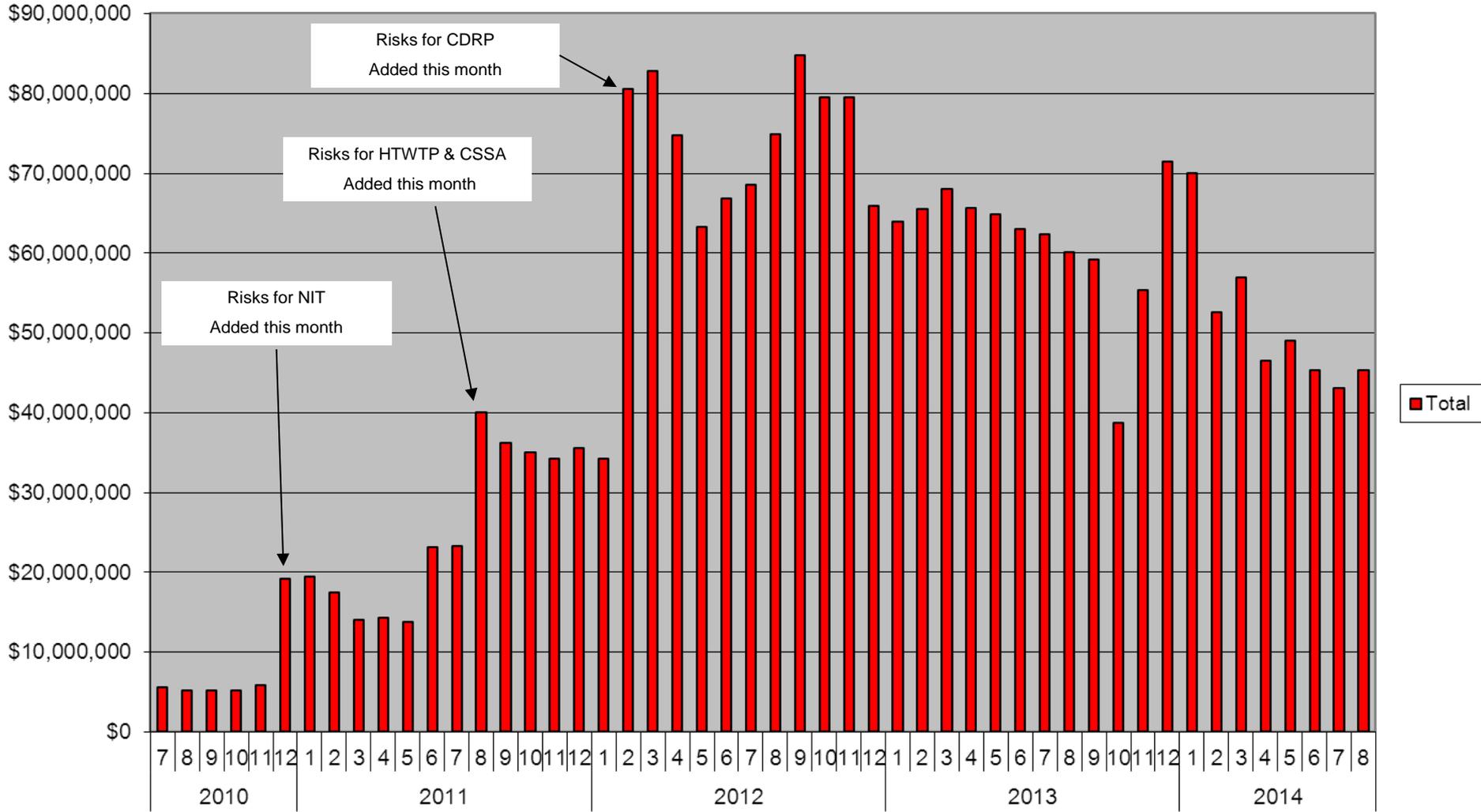
Current (Threat only): Mean (Sampled): 31832586.65, Mean (Arithmetic): 31767652.5, SD: 13125521.88, CV: 0%



Name ▾

Sum of T Risks 80%

Total



Year ▾

Month ▾

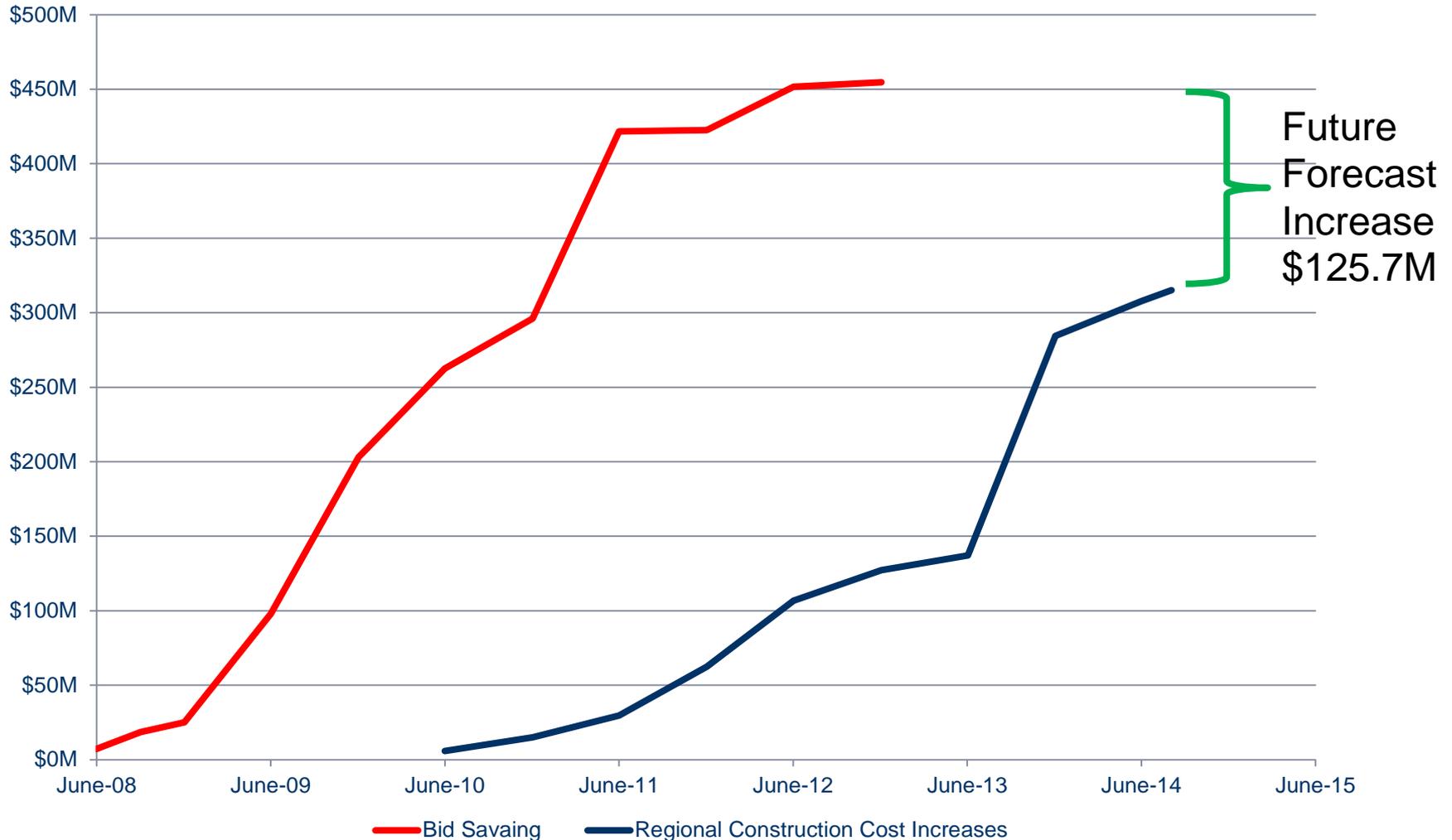


Construction Bid Savings To Date

CALENDAR YEAR	BID SAVINGS
2005	\$(5,043,458)
2006	\$2,779,984
2007	\$1,855,525
2008	\$(24,722,809)
2009	\$(177,990,630)
2010	\$(92,893,907)
2011	\$(126,584,888)
2012	\$(29,033,508)
2013	\$(3,138,551)
2014	\$(6,688,135)
TOTAL	\$(461,460,377)



WSIP Bid Savings vs. Construction Cost Increases



Pending = \$75.4M, Potential = \$9.1M, Trends = \$41.2M



Deferred Projects

PROJECT	PROJECT BUDGET
Millbrae Yard Improvements	\$65M
Regional Desalination Project	\$60M
San Francisco Eastside Recycled Water Project	\$212M
TOTAL	\$337M



Active Water Supply Projects

PROJECT	PROJECT BUDGET
San Francisco Groundwater Supply	\$67M
Regional Groundwater Storage & Recovery	\$114M
Alameda Creek Recapture Project	\$29M
San Francisco Westside Recycled Water	\$186M
TOTAL	\$396M