Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
Region: 09 **Non Federal Facilities**						
Region: 09 **SFD-7-1** **CA Site Cleanup Section I**						
ADVANCED MICRO DEVICES, INC.	CAD048634059	00	GOVT Five-Year Review	FE4	F	09/30/14

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Changed Site Conditions	Changed site condition - Other Issue	N	N	Conduct additional studies	P	E	09/30/15	12/30/21		Ongoing	09/03/20
Issue OU: 01	[OU - Offsite] Groundwater concentrations in the off-site plume indicate a potential for vapor intrusion in an area with 4 schools and over 100 residences. There has been limited indoor air sampling in the area.			[OU - offsite] Conduct additional vapor intrusion assessments at the site.			[OU - Off-site] A protectiveness determination of the remedy at the OOU cannot be made at this time until further information is obtained. Vapor intrusion assessments must be conducted to determine if indoor air pathways are complete. If unacceptable levels are encountered in a particular building, mitigation plans will be implemented to ensure that levels of VOCs in indoor air are protective. EPA began a vapor intrusion assessment and completed this effort in September 2019 by negotiating an AOC with the RPs to require preemptive mitigation of 40 residential buildings in the highest VI-risk area of the OOU, rather than back-and-forth monitoring indefinitely. To date, more than 20 school and residential mitigation systems have been installed. O&M inspections are ongoing in mitigated buildings.			[OU - Offsite]	
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	E	E	09/30/16	03/01/24		Ongoing	09/03/20
Issue OU: 01	[OU - TRW] The remedy selected for the Site is no longer being operated.			[OU - TRW] Selected a revised cleanup plan and prepare a revised EPA decision document.			[OU - TRW] RP conducting additional site characterization activities to develop an FFS to support a RODA.			[OU - TRW]	
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	E	E	09/30/16	03/01/24		Under Discussion	09/03/20
Issue OU: 01	[OU - AMD 901/902] The remedy selected for the Site is no longer being operated.			[OU - AMD 901/902] Selected a revised cleanup plan and prepare a revised EPA decision document.			[OU - AMD 901/902] The PRP has submitted an FFS to EPA, which is currently under review.			[OU - AMD 901/902]	

ADVANCED MICRO DEVICES, INC.	CAD048634059	00	GOVT Five-Year Review	FE9	F	09/18/19

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

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Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Changed Site Conditions Issue OU: 01	Changed site condition - Other Issue Indoor air sampling results indicate that the vapor intrusion pathway is complete in buildings in the Offsite OU	N	Y	Changed Site Conditions - Other Recommendation Select a revised remedy which addresses vapor intrusion.	P	E	09/01/22 More time needed to select a revised remedy which addresses vapor intrusion.	09/01/25		Ongoing	09/03/20
Remedy Performance Issue OU: 01	Remedy Performance - Other Issue The remedy selected for the Offsite OU will not be able to achieve the remedial action objective of restoration of groundwater in a reasonable timeframe, as defined in the ROD.	N	Y	Remedy Performance - Other Recommendation : Conduct remedy performance optimization efforts, after investigating whether hydrogeology is adequately characterized. A revised remedy may be needed to achieve the RAOs.	P	E	09/01/22 More time needed to conduct remedy performance optimization efforts.	09/01/25		Ongoing	09/03/20
Remedy Performance Issue OU: 01	Remedy Performance - Other Issue The remedy selected for the AMD Site is no longer being operated and does not address vapor intrusion.	N	Y	Remedy Performance - Other Recommendation Select a revised remedy which also addresses potential vapor intrusion in the event of future land use changes.	P	E	09/01/22 More time needed to Select a revised remedy.	09/01/25		Ongoing	09/03/20
Remedy Performance Issue OU: 01	Remedy Performance - Other Issue Outdoor air TCE levels have shown a generally upward trend over time since regular sampling commenced in January 2015.	N	Y	Remedy Performance - Other Recommendation : Investigate contributions to outdoor air TCE levels from fugitive emissions from the groundwater treatment system and emissions from the vapor intrusion mitigation systems.	P	E	09/01/22	09/01/22		Ongoing	09/03/20
Remedy Performance Issue OU: 01	Remedy Performance - Other Issue The remedy selected for the TRW Site is no longer being operated.	N	Y	Remedy Performance - Other Recommendation Select a revised remedy which incorporates long-term stewardship measures for the current vapor intrusion mitigation measures in place, as well as addresses potential vapor intrusion in the event of future land use changes.	P	E	09/01/22 More time needed to select a revised remedy.	09/01/25		Ongoing	09/03/20

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Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
INTERSIL INC./SIEMENS COMPONENTS	CAD041472341	00	GOVT Five-Year Review	FE5	F	09/22/15

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Monitoring	Monitoring - Other	N	Y	Continue Monitoring	P	B	09/30/16	09/30/24		Under Discussion	09/03/20
Issue OU: 01	Boundary of TCE plume in Off-Property Study Area has not been sufficiently defined.			Further evaluate and define TCE concentrations across the A Zone in the Off-Property Study Area.			In December 2016 RP submitted a report of the off-property gw investigation in the A depth intervals. Undergoing state/EPA review.				
Remedy Performance	Remedy Performance - Other Issue	N	Y	Continue remedial process optimization activities	P	B	09/30/15	09/30/24		Ongoing	09/03/20
Issue OU: 01	A minor increasing trend of VOCs at low levels was observed in three B-Zone wells. A stable trend above cleanup standards was observed in two A- Zone wells and one B-Zone wells. Increasing trends may preliminarily indicate a lack of full control of the TCE plume by the selected remedy (extraction wells) and stable trends may preliminarily indicate ineffectiveness of the current remedy in achieving cleanup standards.			Improve the efficiency of the current pump and treat system and/or develop alternative methods of remediation.			In progress. On Oct. 28, 2016 and Jan. 4, 2017, the RP submitted workplans for a Phase III in-situ bioremediation study at the Siemens Site, to implement recommendations from the Phase II biostudy. On Jan. 10, 2018 the RP submitted a status report on the Phase III study to the State, summarizing the results of the first six months of performance monitoring. Reports stated that results appear to be promising and additional monitoring planned. Currently undergoing review.				

Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
INTERSIL INC./SIEMENS COMPONENTS	CAD041472341	00	GOVT Five-Year Review	FE6	F	09/28/20

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Monitoring	Monitoring not being conducted	N	Y	Install new groundwater monitoring wells	P	S	12/30/24	12/30/24		Ongoing	09/28/20
Issue OU: 01				Install additional monitoring wells to delineate groundwater contamination within the A1 and A3 Zones of the Resaturated Interval, south of Forge Drive within the former Intersil property.							

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Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
TRIPLE SITE	CAN000900265	00	GOVT Five-Year Review	FE1	F	09/18/19

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Changed Site Conditions Issue OU: 01, 02	Changed site condition - Other Issue Indoor air sampling results indicate that the vapor intrusion pathway is complete in buildings in the Offsite OU	N	Y	Changed Site Conditions - Other Recommendation Select a revised remedy which addresses vapor intrusion.	P	E	09/01/22 More time needed for selection of revised remedy.	09/01/25		Ongoing	09/03/20
Remedy Performance Issue OU: 01, 02	Remedy Performance - Other Issue The remedy selected for the Offsite OU will not be able to achieve the remedial action objective of restoration of groundwater in a reasonable timeframe, as defined in the ROD.	N	Y	Remedy Performance - Other Recommendation Conduct remedy performance optimization efforts, after investigating whether hydrogeology is adequately characterized. A revised remedy may be needed to achieve the RAOs.	P	E	09/01/22 More time needed to conduct remedy performance optimization efforts.	09/01/25		Ongoing	09/03/20
Remedy Performance Issue OU: 01, 02	Remedy Performance - Other Issue Outdoor air TCE levels have shown a generally upward trend over time since regular sampling commenced in January 2015.	N	Y	Remedy Performance - Other Recommendation Investigate contributions to outdoor air TCE levels from fugitive emissions from the groundwater treatment system and emissions from the vapor intrusion mitigation systems.	P	E	09/01/22	09/01/22		Ongoing	09/03/20

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Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
TRW MICROWAVE, INC (BUILDING 825)	CAD009159088	00	GOVT Five-Year Review	FE4	F	09/30/14

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	E	E	09/30/16	09/01/25		Under Discussion	09/03/20
Issue OU: 01	The remedy selected for the Site is no longer being operated.			Select a revised cleanup plan and prepare a revised EPA decision document.			Will begin this effort after VI investigation in Offsite OU complete & TRW FFS finalized				

Site Name	EPA ID	OU	FYR Action	Action ID	Lead	Finish (Actuals)
TRW MICROWAVE, INC (BUILDING 825)	CAD009159088	00	GOVT Five-Year Review	FE6	F	09/18/19

Site Primary RPM Name: Schulman, Michael

FYR Issues and Recommendations

Issue Category	Issue	Affects Prtctvnss Curr	Affects Prtctvnss Fut	Recommendation	Parties Implmt	Parties Ovrst	Original Planned Completion Date	Current Planned Completion Date	Actual Completion Date	Status	Verified by RPM Date
Changed Site Conditions	Changed site condition - Other Issue	N	Y	Changed Site Conditions - Other Recommendation	P	E	09/01/22	09/01/25		Ongoing	09/03/20
Issue OU: 01	Indoor air sampling results indicate that the vapor intrusion pathway is complete in buildings in the Offsite OU			Select a revised remedy which addresses vapor intrusion.			More time needed to select a revised remedy which addresses vapor intrusion.				
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	P	E	09/01/22	09/01/22		Ongoing	09/03/20
Issue OU: 01	Outdoor air TCE levels have shown a generally upward trend over time since regular sampling commenced in January 2015.			Investigate contributions to outdoor air TCE levels from fugitive emissions from the groundwater treatment system and emissions from the vapor intrusion mitigation systems.							
Remedy Performance	Remedy Performance - Other Issue	N	Y	Repair or add armor to cap	P	E	09/01/22	09/01/25		Ongoing	09/03/20
Issue OU: 01	The remedy selected for the AMD Site is no longer being operated and does not address vapor intrusion.			Select a revised remedy which also addresses potential vapor intrusion in the event of future land use changes.			More time needed to select a revised remedy.				

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Site Name				*EPA ID*	*OU*	*FYR Action*		*Action ID*	*Lead*	*Finish (Actuals)*
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	P	E	09/01/22	09/01/25	Ongoing	09/03/20
Issue OU: 01	The remedy selected for the Offsite OU will not be able to achieve the remedial action objective of restoration of groundwater in a reasonable timeframe, as defined in the ROD.			Conduct remedy performance optimization efforts, after investigating whether hydrogeology is adequately characterized. A revised remedy may be needed to achieve the RAOs.		More time needed to conduct remedy performance optimization efforts.				
Remedy Performance	Remedy Performance - Other Issue	N	Y	Remedy Performance - Other Recommendation	P	E	09/01/22	09/01/25	Ongoing	09/03/20
Issue OU: 01	The remedy selected for the TRW Site is no longer being operated.			Select a revised remedy which incorporates long-term stewardship measures for the current vapor intrusion mitigation measures in place, as well as addresses potential vapor intrusion in the event of future land use changes.		More time needed to select a revised remedy.				

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