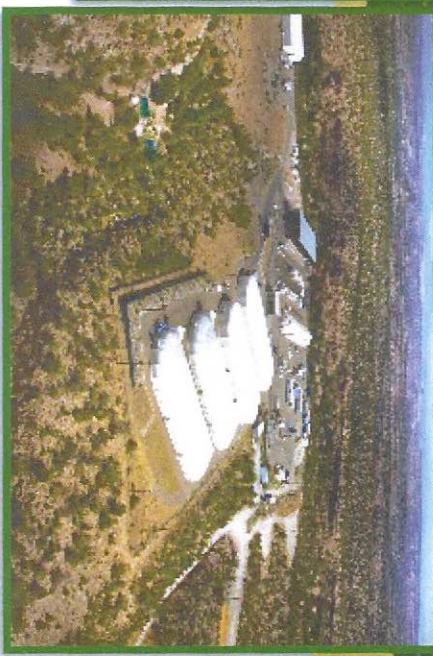
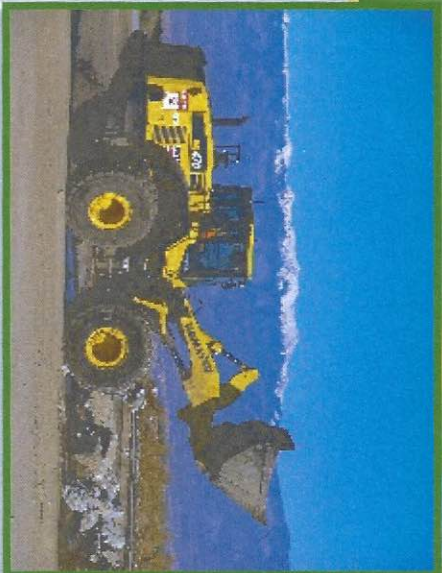
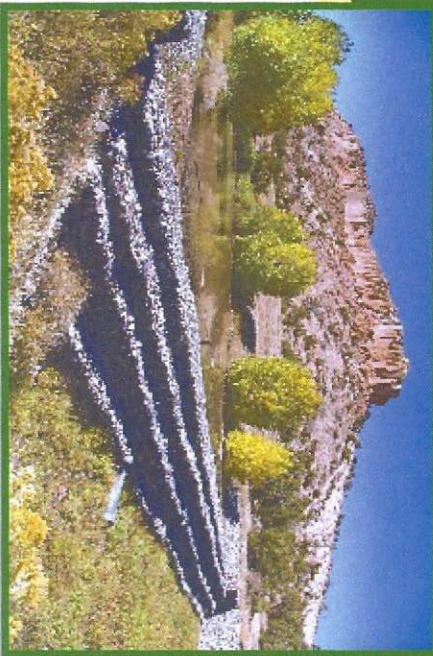




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# 2016 Compliance Order on Consent Progress Update for FY 2017 and FY 2018 Appendix B Update

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**January 16, 2018**



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# Presentation Outline

- **FY 2017 Progress**
- **FY 2018 Appendix B Milestones and Targets**
- **Questions**



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## FY 2017 Progress

### ➤ Appendix A

- 7 sites received Certificates of Completion with Controls
- 55 sites received Certificates of Completion without Controls
- 107 additional sites with work completed and reports submitted to NMED-HWB
- 17 sites were changed to a deferred status

### ➤ Appendix B

- Recurring deliverables completed – Integrated Facility Groundwater Monitoring Program and Los Alamos/Pueblo Canyon Sediment Monitoring
- Chromium
  - 4 Injection Wells completed
  - 2 Extraction Well Evaluation and Recommendation on CrEX-2
  - Initial Operation of Interim Measures for Boundary Protection



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**FY 2017 Progress (continued)**

## ➤ Appendix B

- Historical Properties Completion Campaign - Upper & Middle Los Alamos Canyon Aggregate Area Cleanups completed (except one PCB site in Middle Los Alamos Canyon) – reports submitted
- Royal Demolition Explosives (RDX) in Canon de Valle (TA-16)
  - Tracer test completed
  - Aquifer testing for CdV-9-1(i) completed
  - New potential source (TA-9) identified and R-68 completed
- Supplemental Investigation Reports
  - All milestones were met
- Sandia Canyon Wetland Performance Report (post grade control structure installation)



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## FY 2018 Annual Update

### ➤ **Appendix A**

- Markup provided with 186 status changes plus some deferred sites identified

### ➤ **Appendix B**

- Includes 15 Milestones for FY 2018 and 12 targets for FY 2019 and 11 Targets for FY 2020

### ➤ **Appendix C**

- No changes made



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## FY 2018 Appendix B

- Appendix B is organized by specific campaigns and includes milestones for current year and targets for the next two subsequent years.
- It is negotiated and updated each year.
- The FY 2018 Appendix B includes 15 milestones, and identifies 12 targets for FY 2019 and 11 targets for FY 2020.



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**Appendix B MILESTONES AND TARGETS**

		FY 2018 MILESTONES			FY 2019 TARGETS			FY 2020 TARGETS		
Campaign	Milestone #	Milestone	Milestone Description	Milestone Date	Target	Target Description	Target Date	Target	Target Description	Target Date
Chromium IM & Characterization	4	Annual Monitoring Report for the Completed FY18 and Plan for the upcoming FY19 for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	Annual report of last year's results and update to plan for the upcoming year based on last year's observations. Both the annual report and the plan address the performance of stormwater controls installed in the LA/Pueblo watershed.	4/30/2018	Annual Monitoring Report for the Completed FY18 and Plan for the upcoming FY19 for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	Annual report of last year's results and update to plan for the upcoming year based on last year's observations. Both the annual report and the plan address the performance of stormwater controls installed in the LA/Pueblo watershed.	4/30/2019	Annual Monitoring Report for the Completed FY19 and Plan for the upcoming FY20 for Los Alamos/Pueblo Watershed Sediment Transport Mitigation Project	Annual update to the groundwater monitoring program baseline document with adjustments to sampling, monitoring groups, analysis, and frequencies based on previous results.	4/30/2020
	1	Technical Report Package for Chromium Plume Center Characterization	Compendium of technical reports that will present results of hydrology, geology, and geochemistry studies that support plume-center characterization and evaluation of remedial alternatives.	3/30/2018						
	3	Letter Report to NMED-HWB documenting integrated operation of Chromium Extraction Well 4 (CEX-4) into the existing IM system.	Letter report documenting completion of a sequence of activities conducted to build out additional IM functionality including: 1) installation of CEX-4; 2) installation and testing of CEX-4 piping; 3) control system modification to include CEX-4; and 4) demonstration that CEX-4 extracted water is injected into one or more injection wells.	3/30/2018						
	9	Annual Progress Report on Chromium Plume Control Interim Measure Performance	The progress report will include data and trends for performance monitoring wells, analysis of performance, and documentation and recommendations for operational changes in distribution of treated water into injection wells. Modeling results will be included as necessary to support analysis of performance and recommendations.	9/30/2018	Annual Progress Report of the Effectiveness of the Chromium Plume Control Interim Measure	This progress report will include summaries of the data collected, the modeling activities and changes in projections, and a discussion of the effectiveness to meet the objectives of plume control, and recommendations on additional changes to be considered in the subsequent operating year.	9/30/2019	Annual Progress Report of the Effectiveness of the Chromium Plume Control Interim Measure	This progress report will include summaries of the data collected, the modeling activities and changes in projections, and a discussion of the effectiveness to meet the objectives of plume control, and recommendations on additional changes to be considered in the subsequent operating year.	9/30/2020
Chromium IM & Characterization	8	Summary Report (Completion or Progress) of the Phase 1 Pilot Amendment Test Results	The report will include the description of the tests, the data collected in relation to the test plan, identify any anomalous conditions observed, and any preliminary results available.	7/31/2018						
Chromium IM & Characterization	10	Phase 2 Pilot Amendment Testing Work Plan submitted to NMED-HWB	The investigation work plan will provide the description of the testing and data collection needs to meet stated data quality objectives.	9/28/2018	Summary Report (Completion or Progress) of the Phase 2 Pilot Amendment Test Results submitted to NMED-HWB	Summary report will include the description of the tests, the data collected in relation to the test plan, identify any anomalous conditions observed, and any preliminary results available.	9/30/2019	Chromium Corrective Measures Evaluation (CME) Report completed and submitted to NMED-HWB	The CME will be the culmination of the Chromium investigatory activities and will include a recommendation of a remedy.	9/30/2020

**Appendix B MILESTONES AND TARGETS**

			FY 2018 MILESTONES			FY 2019 TARGETS			FY 2020 TARGETS				
Campaign	Milestone #	Milestone	Milestone Description	Milestone Date	Target	Target Description	Target Date	Target	Target Description	Target Date			
Historical Properties - Upper LA Cyn	11	Upper Los Alamos Canyon Aggregate Area Phase II Investigation Report Submitted to NMED	Completion of all SWMUS/ACCs in Upper Los Alamos Canyon Aggregate Area and development and submittal of the Investigation Report. This report will include those DOE SWMUS on the back side of private property (including SWMUS cleanup in Former TA-32 and separately reported).	9/28/2018									
			Historical Properties - Middle LA Cyn	12	Middle LA Canyon Phase II, Revision 2 Investigation Report submitted to NMED	This milestone is the final Phase II report for Middle Los Alamos Canyon Aggregate Area and will document the completion activities for cleanups, ECOMS studies, and risk assessments for all sites within the aggregate area.	9/28/2018						
RDX Characterization	2	Technical Report Package related to Deep Groundwater Investigation	Compendium of technical reports that will present results of hydrology, geology, and geochemistry studies that support Investigation Report for Deep Groundwater	3/30/2018									
			RDX Characterization	13	R-69 Field Completion	Letter documenting field completion of the well and first samples completed. This is a campaign level milestone because data from R-69 is necessary to address important conceptual model questions for the Investigation Report for Deep Groundwater.	9/28/2018	Investigation Report for Deep Groundwater	Investigation Report that culminates results of investigation activities associated with deep groundwater assessment. Follows completion and multiple rounds of data collection at R-69.	3/30/2019	Corrective Measures Evaluation (CME) for the RDX Contaminant Plume in the Deep Groundwater	This CME will address RDX contamination in deep groundwater. If the risk assessment in the Deep Groundwater Investigation Report indicates a driver for remediation to protect the regional aquifer.	3/30/2020
RDX Characterization	14	First Annual Long-Term Monitoring Report following completion of Surface CMI and approval of a Long-Term Monitoring Plan	Annual report presenting results of periodic monitoring and inspection as required by Long-Term Monitoring Plan included in the Remedial Completion Report for Corrective Measures Implementation at Consolidated Unit 16-021(C)-99.	9/28/2018	Second Annual Long-Term Monitoring Report of Results following Surface RDX Corrective Measures Implementation	Executes the reporting required for long-term monitoring and inspection for the Remedial Completion Report	9/30/2019	Third Annual Long-Term Monitoring Report of Results following Surface RDX Corrective Measures Implementation	Executes the reporting required for long-term monitoring and inspection for the Remedial Completion Report	9/30/2020			
			TA-21 D&D and Cleanup	7	Investigation Report for DP Sites Aggregate Area (DP54A) at DP East at TA-21	Includes 4 SWMUS in Consolidated Unit 21-004(B)-99 and one SWMUS in DP East (consolidated two previous targets).	6/29/2018	TA-21 Delta Prime (DP) West Building Footprint Investigations Complete and Investigation Report	This report will summarize the investigation of sites located at DP West.	9/30/2019	Following demolition of TA-21 Building 21-257 (not under Consent Order), initiate the Building 21-257 Footprint Investigation (lead to removal of DP West Industrial Waste Lines).	Initiate Investigations of SWMUS/ACCs associated with Building 21-257	9/30/2020
						TA-21 D&D and Cleanup							





		FY 2018 MILESTONES				FY 2019 TARGETS			FY 2020 TARGETS		
		Milestone #	Milestone	Milestone Description	Milestone Date	Target	Target Description	Target Date	Target	Target Description	Target Date
MDAs-G & L Remedies	MDA-H Remedy										
	MDA-G & L Remedies				15			12			11