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PNNL-12114-ICN-1 March 27, 2000; Page 1 of 6

(ICN)	
T3Q 3/22/00 A. Document No.: PNNL-12114 Revision No.: September 1999	Effective
A. Document No.: <u>INNEXTATIA</u> Revision No.: 7 September 1999	Date of ICN: <u>03/27/2000</u>
Document Title: <u>RCRA Assessment Plan for Single-Shell Tank Waste Management Area S-SX at the Hanford</u> Site, September 1999	
Document's Original Author: V. G. Johnson and C. J. Chou	
	Change Requested By: V. G. Johnson
B. Action:	
Make changes in the S-SX groundwater quality assessment plan, as described below in Section D. Attach this ICN to	the front of the document.
	•
C. Effect of Change: Documents completion of planned drilling (PNNL-12114, Appendix A) of three new wells during CY 1999 for the on One new well (299-W22-48) improves downgradient spatial coverage at the S Farm and two (299-W22-49 and 299-W downgradient wells at the SX Farm that will soon go dry. Also adds one new well (299-W23-19) that was originally d borehole that was completed as a groundwater monitoring well near single shell tank SX-115. The change adds these sampling and analysis schedule for WMA S-SX.	(22-50) are replacements for two rilled as a vadose characterization
	,
D. Reason for Change/Description of Change:	
Reason for Change: Update groundwater quality assessment plan at WMA S-SX (PNNL-12114) and document conplanned in PNNL 12114.	ompletion of three new wells as
Description of Change : (1) Mark through Figure A.2 and refer to the new figure (attached); (2) On page A.13, 2 ⁿ new wells planned for FY 99" and write in "299-W22-48, 299-W22-49, 299-W22-50." (3) On page A.13, 4 ^h line, "d W23-19." (4) Insert as-built diagrams for new wells 299-W22-48, 299-W22-49, 299-W22-50 and 299-W23-19, at the through the last sentence on page 1.1 and write in: "Hexavalent chromium is identified as a toxicity characteristic con Permit for single shell tanks, as defined in WAC 173-303-090 (Dangerous Waste Characteristics)."	elete 41-09-39 and insert 299- e end of Appendix B. (5) Mark
E. Document Management Decisions:	
	ge: (Check one):
Minor	<u>X Major</u> 73a 3/22/00
Approval Authority:S. P. Luttrell	Date: <u>3-21-00</u>
Other Approvals:V. G. Johnson (Technical)	Date: 3-21-00
M. J. Hartman (Technical Review) May Offarman	Date: <u>21 Mar 80</u>

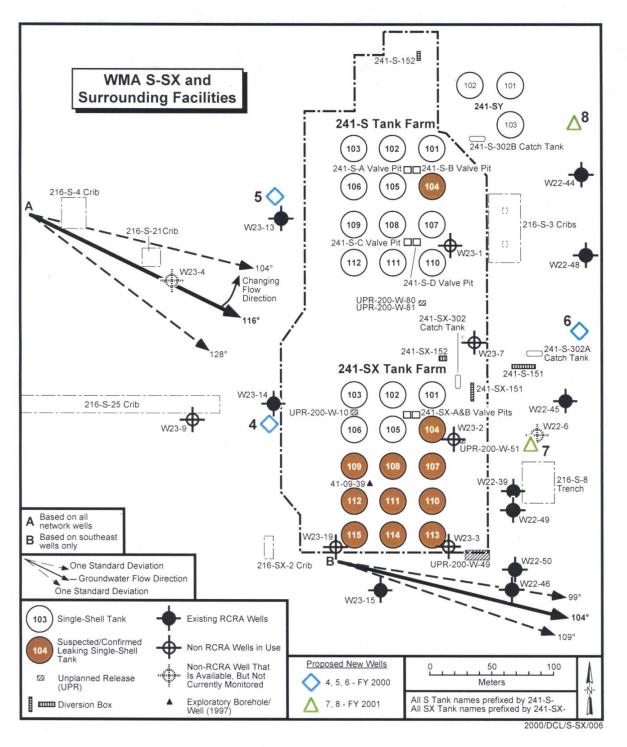
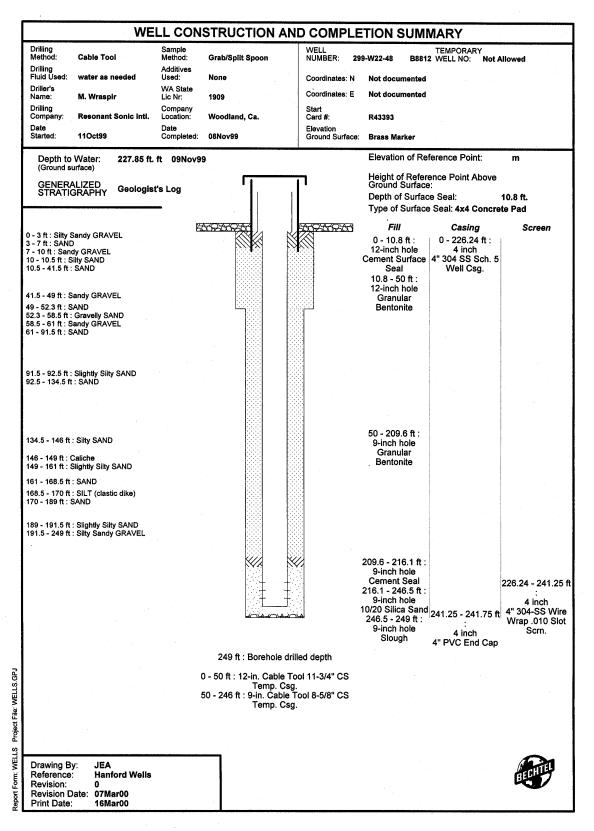
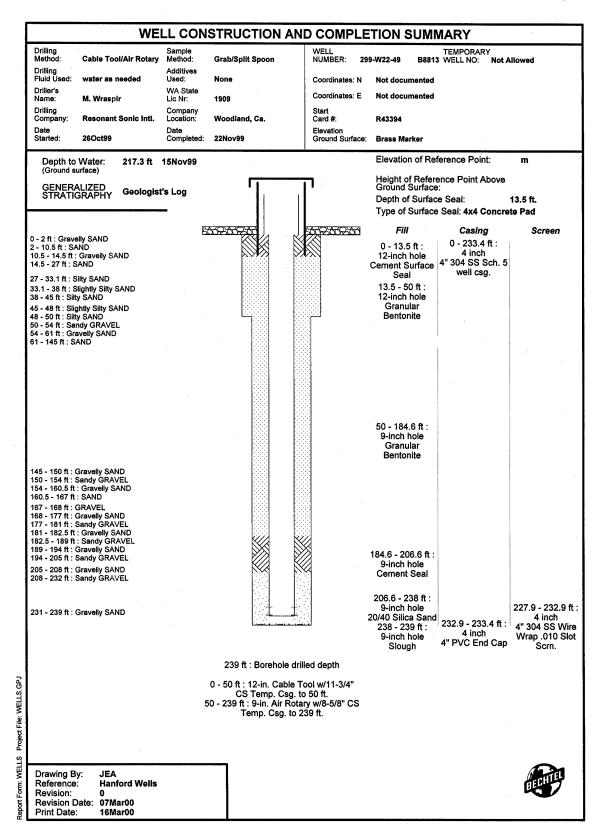


Figure A.2





Drilling Method: C	able Toil & Air Rotary	Sample Method:	Grab/Split Spoon	WELL NUMBER: 29	99-W22-50 B8814	TEMPORARY WELL NO: Not A	llowed
Drilling Fluid Used: N	//A	Additives Used:	None	Coordinates: N	Not documented		
Driller's Name: N	1. Wraspir	WA State Lic Nr:	1909	Coordinates: E	Not documented		
Drilling	•	Company	1909	Start			
Company: F	Resonant Sonic Intl.	Location: Date	Woodland, Ca.	Card #: Elevation	R43395		
	0Nov99	Completed:	28Jan00	Ground Surface	: Brass Marker		
Depth to W (Ground surf		it 26Jan00	•	-	Elevation of Ref	erence Point:	m
GENERAL	ZED ADHIV Geologist	's Log			Height of Refere Ground Surface	nce Point Above	
311041104		-		Depth of Surface Seal: 10.0 ft. Type of Surface Seal: 4x4 Concrete Pad			
		22		00000000	Fill	Casing	Screen
0 - 1.5 ft : Sandy 1.5 - 9 ft : SAND					0 - 10 ft : 12-inch hole	0 - 217,95 ft :	
9 - 14 ft : Graveli 14 - 59 ft : SAND				3	Cement Surface	4 inch 4" 304 SS Sch. 5	
59 - 62.5 ft : San	dy GRAVEL				Seal 10 - 50.39 ft :	Well Csg.	
52.5 - 129 ft : SA	ND				12-inch hole		
				1	#8 Bentonite Crumbles		
				1	50.39 - 199.5 ft :		
l29 - 130.5 ft : S l30.5 - 136 ft : S				1	9-inch hole		-
136 - 138 ft : Sar				·	#8 Bentonite Crumbles		
142 - 152 ft : Sar	ndy GRAVEL		[1] [2]		Crumples		
152 - 153 ft : SAi 153 - 156 ft : Sar					199.5 - 208.2 ft :		
156 - 175.5 ft : S	AND ilty Sandy GRAVEL				9-inch hole		217.95 - 232.96 f
226 - 229 ft : Sar	ndy GRAVEL				Cement Seal		:
229 - 231 ft : SAI 231 - 302 ft : Sar					208.2 - 233.44 ft : 9-inch hole	232.96 - 233.44 π	4 inch 4" SS Wire Wrap
				i.	20/40 Silica Sand	4 inch	.010 Slot Scrn.
00 200 4 . CA					233.44 - 241 ft :	4" SS End Cap	
302 - 308 ft : SAI 308 - 313 ft : Gre	velly Silty SAND				9-inch hole		
313 - 333 ft : Silt 333 - 334 ft : Silt	y Sandy GRAVEL y Gravelly SAND				4-6/6-9 Silica Sand		
334 - 338 ft : Gra	velly Sandy SILT				241 - 245.35 ft :		
343 - 348 ft : Gra	velly Silty SAND				7-inch hole 4-6/6-9 Silica		
348 - 385 ft : Gra 385 - 415 ft : Sar					Sand		
415 - 422 ft : Silt	-				245.35 - 246 ft : 7-inch hole		
422 - 435 ft : Gra					Cement Seal		
457 - 496 ft : Rin	aold Lower Mud		1/24//20		246 - 247.35 ft :		
	3 E01101 MING				7-inch hole 4-6/6-9 Silica		
196 - 547 5 ft · R	ingold "A" GRAVEL				Sand		
					247.35 - 255 ft : 7-inch hole		
					Slough W/Bontonito		
					w/Bentonite 255 - 273.5 ft :		
					7-inch hole		
			547 5 # · Davahala	lad donth	Bentonite 273.5 - 450.3 ft :		
			547.5 ft : Borehole dri	•	7-inch hole 3/8" Pea Gravel		
		1	0 - 50.39 ft : 12-in. Cable CS Temp. Csg. to 5		450.3 - 474 ft : 7-inch hole		
50.39 - 241 ft : 9-in. Cable CS Temp. Csg. to 2 241 - 474 ft : 7-in. Air Rol Assist 6-5/8" CS Temp. Cs		e Tool 8-5/8"	Cement Seal				
			474 - 498.5 ft : 4.5-inch hole				
		sg. to 474 ft.	Cement Seal				
		4	174 - 547.5 ft : 4.5-in. Air Hole to 547.5		498.5 - 547.5 ft :		
			1010 10 047.0		4.5-inch hole 4-6/6-9 Silica		~
Drawing By:	JEA				Sand		TITEL
Reference: Revision:	Hanford Wells 0						847
	e: 07Mar00						

WELL CONSTRUCTION AND COMPLETION SUMMARY							
Drilling Method: Drilling Fluid Used:	Air Rotary and S N/A	Sample Sonic Method: Additives Used:	Split Spoon None	WELL NUMBER: 29 Coordinates: N	99-W23-19 B8809 Not documented	TEMPORARY WELL NO: Not A	llowed
Driller's Name:	Wesley Worth	WA State Lic Nr:	2273	Coordinates: E	Not documented		
Drilling Company:	Resonant Sonic		Woodland, Ca.	Start Card #:	R42661		
Date Started:	02Aug99	Date Completed:	17Nov99	Elevation Ground Surface:	Brass Marker		
Depth to (Ground su		8 ft. ft 28Sep99 6 ft 04Nov99			Elevation of Ref	erence Point:	m
GENERA		logist's Log		•	Ground Surface Depth of Surface		1.19 ft. Completion
		_		0.0.00	Fill	Casing	Screen
					0 - 11.19 ft : 11-inch hole Cement Surface Seal	0.6 - 211.6 ft : 4 inch 4" SS Sch. 40 Csg.	
					11.19 - 99.04 ft : 11-inch hole Bentonitě Crumbles		
					99.04 - 149.73 ft : 9-inch hole Bentonite Crumbles		
					149.73 - 165.08 ft 9-inch hole Cement Grout Seal 165.08 - 195.58 ft		•
					9-inch hole Bentonite Crumbles 195.48 - 201.48 ft 9-inch hole Cement Grout Seal		210.66 - 241.3 ft 4 inch 4" SS .020 Slot Wire Wrap Screen
			246 ft : Borehole dril		201.48 - 244.26 ft 9-inch hole 10/20 Silica Sand 244.26 - 246 ft : 9-inch hole	241.3 - 241.6 ft : 4 inch 4" SS End Cap	
		0	- 99.04 ft : 10.75-in. 10- Csg. set at 99 99.04 - 246 ft : 8.62-in Temp. Csg. set 24	.04 . 8-5/8" CS.	10/20 Silica Sand		
Drawing By Reference: Revision: Revision D Print Date:	Hanford V B ate: 14Oct99	Vells				:	

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