

Department of Energy

Office of Civilian Radioactive Waste Management Yucca Mountain Site Characterization Office P.O. Box 98608 Las Vegas, NV 89193-8608

QA: L

AUG 1 6 1994

Larry R. Hayes Technical Project Officer for Yucca Mountain Site Characterization Project U.S. Geological Survey 101 Convention Center Drive Suite 860 Las Vegas, NV 89109

VERIFICATION OF CORRECTIVE ACTION AND CLOSURE OF CORRECTIVE ACTION REQUEST (CAR) YM-94-044 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) AUDIT YMP-94-06 OF U.S. GEOLOGICAL SURVEY (SCPB: N/A)

The YMQAD staff has verified the corrective action to CAR YM-94-044 and determined the results to be satisfactory. As a result, the CAR is considered closed.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Stephen R. Maslar at 794-7762.

RC. Spince

YMQAD:RBC-4680

Richard E. Spence, Director Yucca Mountain Quality Assurance Division

Enclosure: CAR YM-94-044

cc w/encl: **R. La Johnson**, NRC, Washington, DC S. W. Zimmerman, NWPO, Carson City, NV T. H. Chaney, USGS, Denver, CO R. W. Craig, USGS, Las Vegas, NV D. D. Porter, SAIC, Golden, CO cc w/o encl:

W. L. Belke, NRC, Las Vegas, NV D. G. Sult, YMQAD/QATSS, Las Vegas, NV

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9408300244 940816 PDR WASTE WM-11 PDR

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RADIOACTIVE V U.S. DEPART	E OF CIVILIAN WASTE MANAGEN TMENT OF ENERG INGTON, D.C.	
CORRECTIVE	ACTION REQUES	- <u></u>
1 Controlling Document		2 Related Report No.
YMP-USGS-QMP-18.02, Revision 3		XMP-94-06
³ Responsible Organization USGS	4 Discussed With T. Chaney/L. McInr	ру
5 Requirement: Attachment I provides the surveillance report in the report summary on acceptability and e surveillance.	rt format. It require effectiveness of the a	s a statement ctivity under
6 Adverse Condition: Contrary to the above, surveillance reports contain a statement in the report summary or the activity. The acceptability and effecti the surveillance report transmittal letter.	acceptability and ef	fectiveness of
⁹ Does a Significant Condition ¹⁰ Does a s	stop work condition exist?	3 Response Due Date:
	No <u>x</u> : If Yes - Attach cop Circle One: A B C	by of SWO 20 Working Days From Issuance
¹¹ Required Actions: X Remedial X Extent of Defi	ciency 🖾 Preclude Re	currence 🔲 Root Cause Determination
12 Recommended Actions: Comply with procedure requirements.		
7 Initiator C.C. Letanen yfor S. Maslar 6-30.9	4 QADD RAD	ed py: 1 M(ADX) for Date 7.4.94
15 Response Accepted OAR D. P. Moden Date 8/8/ 17 Amended Response Accepted	16 Response Accept 94 OADD AC 18 Amended Response	Ame Date 8/1//94
QAR Date	QADD	Date
19 Corrective Actions Verified QAR S, R. Maslan Date 8/12	20 Closure Approve	d by: Dha Date 8/1/194
	17	CUPI 1918E REV. 2/14/94

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	* CAR NO. <u>94-044</u>
OFFICE OF CIVILIAN	PAGE: OF
RADIOACTIVE WASTE MANAGEMENT	A0
U.S. DEPARTMENT OF ENERGY	
WASHINGTON, D.C.	
CORRECTIVE ACTION REQUEST (Continuation P	anel
1. CORRECTIVE ACTION RESPONSE FOR CAR No.	
A. <u>REMEDIAL ACTION</u> : The identified condition represents a relatively minimis not considered an important Condition Adverse to Quality. Therefore form of revisions to existing Surveillance Reports, will be initiated.	
B. <u>EXTENT OF THE DEFICIENCY</u> : The identified condition occurred in ap of the Surveillance Reports issued during the last 12 months.	proximately 75% (10 of 13)
C. ROOT CAUSE DETERMINATION: Not required.	
D. <u>CORRECTIVE ACTION TO PRECLUDE RECURRENCE</u> : The Verific Verification staff, are now fully aware of the requirements. All subse will contain the statement as required by the QMP.	
2. For each action above, identify the name of the individual assigned respon- action and the anticipated (or actual, if complete) completion date.	sibility for completion of the
L.L. McInroy, Verification Supervisor	06/28/94
3. RESPONSE APPROVED:	
1 di	
KAMIN AMANAI 811/44	
Thomas H. Chaney Date	
YMP-USGS Quality Assurance/tranager	
Store Que Blilga	
Larry R. Hayes Date Date Chief, Yucca Mountain Project Branch	
8/1/94 Ltn. Alayeo to Spence	
Exhibit QAP-16.1.2 0	REV. 2/14/94
CAR94-44.182	

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		RADIOACTIV U.S. DEPA	ICE OF CIVILIAN E WASTE MANAGE ARTMENT OF ENER SHINGTON, D.C.		8. CAR NO. YM-94-044 PAGE 1 OF 1 QA
		CORRECTIVE ACTION	REQUEST (CONTINUA	TION PAGE)	
Have	cation of CAR YM-94 evaluated the one sur	veillance report issued si	ince the audit (Report USC	8-94-063-1S) fc	r compliance with the
proce	dure. It does comply	with the procedure. Base	ed on the minor nature of t	his CAR, this is	acceptable to close it out
2.	S. R. Mo	slar	8/		
STEP	PHEN R. MASLAR		DATE /		
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	Science Applications Entermational Corporation An Employee Gungary
	14042 Dermer West Performer Suite Stol Guidean Colonado 80401
TO:	STEVE MASLER
LOCATION:	702-794-7125
FAX NUMBER	
CONF. NUME	702-794-7762
FROM:	LARRY MC INROY
DATE:	8/10/94
PHONE NUM	303/236- 4-170
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COMMENT	
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NUMBER	OFES: 1 INCLUDING THIS PAGE



IN REPLY REFER TO:

United States Department of the Interior

GEOLOGICAL SURVEY Box 25046 M.S. 425 Denver Federal Center Denver, Colorado 80225

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WBS#: 1.2.11.3.2 QA: QA June 28, 1994

TO: Chief, Yucca Mountain Project Branch FROM: Thomas H. Chaney Manager YMP-USGS Quality Assurance Manager

SUBJECT: YMP-USGS Quality Assurance Surveillance Report USGS-94063-IS

Enclosed is a report of the surveillance conducted the Quality Assurance Office June 16-17, 1994. As a result of that surveillance, it was determined that the activities being observed generally are adequately and effectively conforming with the specified and applicable elements – of the YMP-USGS QA Program. No Quality Deficiency Reports will be issued as a result of this surveillance.

If you have any questions, require further information, or need assistance, please contact me at 236-1418 or Donna Sinks at 273-1251.

THC:djs

Attachment

Copy to:

R.E. Spence, DOE/YMP	M.H. Mustard, USGS
Hydrologic Investigations Program Chief	M.H. Nash, FEC
Geologic Studies Program Chief	W. Rodman, USGS
M.S. Boucher, USGS	J.P. Rousseau, USGS
W.G. Brown, SAIC	P.G. Sheaffer, SAIC
T.L. Campbell, FEC	P. Tucci, USGS
A.L. Flint, USGS	J.M. Watson, FEC
L.L. Hofmann, FEC	A.M. Whiteside, SAIC
J.A. Lindberg, SAIC	J.B. Woolverton, USGS
T.M. Mendez-Vigo, SAIC	YMP-USGS LRC File: 3.18.02 (USGS-94063-IS)

DJ500029.002

SURVEILLANCE REPORT

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SURVEILLANCE NO. USGS-94063-IS

8.3.1.2.2.1.1:	SIEVING OF GEOTECHNICAL SAMPLES
8.3.1.2.2.1.3:	CONSTANT-HEAD RING INFILTROMETER
8.3.1.2.3.1.2:	USW UZ-14 WATER LEVEL MEASUREMENTS

June 16-17, 1994

UNITED STATES GEOLOGICAL SURVEY YUCCA MOUNTAIN PROJECT QUALITY ASSURANCE OFFICE

PREPARED BY: D.J. Sinks BAIC QA, Golden, QA Verification APPROVED BY: T.H. Chaney, YME USGS QA Manager

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Date: $\frac{6/28/94}{28/94}$

01500099.002

SURVEILLANCE REPORT SURVEILLANCE NO. USGS-94063-IS

SUMMARY:

A field surveillance of the following three SCP activities was conducted June 16-17, 1994, at the USGS facilities and borehole USW UZ-14, Area 25, Nevada Test Site (NTS):

- 8.3.1.2.2.1.1 Characterization of hydrologic properties of surficial materials
- 8.3.1.2.2.1.3 Evaluation of artificial infiltration
- 8.3.1.2.3.1.2 Site potentiometric level evaluation

Three areas were the subject of the surveillance: 1) sieving of dried bulk geotechnical samples, 2) preparation for operation of the constant-head ring infiltrometer, and 3) water level measurements at USW UZ-14. Both USGS and subcontractor personnel were responsible for implementing portions of these SCP activities during the surveillance. The field staff was generally knowledgeable of procedural requirements and was properly implementing the requirements. Based on the surveillance, it was determined that these portions of the three activities are generally acceptable and effectively conforming with the specified and applicable elements of the YMP-USGS QA Program. No Quality Deficiency Reports (QDRs) are issued as a result of this surveillance.

SURVEILLANCE ACTIVITY:

The applicable study plans include:

8.3.1.2.2.1, R2 (3/23/93) Characterization of the unsaturated zone infiltration 8.3.1.2.3.1, R0 (2/26/91) Characterization of the site saturated-zone ground-water flow system

Other applicable documentation include:

Quality Assurance Grading Reports (QAGRs) -G1233121, R0 (8.3.1.2.2.1) G1233131, R0 (8.3.1.2.3.1) YMP-USGS Activity Controls Specifications Reports (ACSRs) -YMP-USGS-ACS-G1233121-1, R0 (8.3.1.2.2.1.1) YMP-USGS-ACS-G1233121-3, R0 (8.3.1.2.2.1.3) YMP-USGS-ACS-G1233131-1, R0 (8.3.1.2.3.1.2; software only)

SURVEILLANCE DATES: June 16-17, 1994

	 Borehole USW UZ-14, Drillhole Wash USGS Hydrologic Research Facility (HRF) Bldg. 4838, Soils Laboratory Follow-up telephone discussions with technical personnel and Administration and Training staff
SURVEILLANCE PERSONNEL:	Donna J. Sinks - SAIC, Golden, CO