

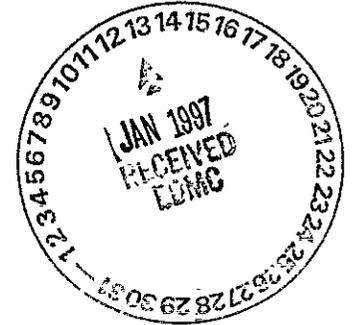
0046443



Science Applications International Corporation  
An Employee-Owned Company

December 5, 1990

Westinghouse Hanford Company  
2355 Stevens Drive  
Richland, WA 99352  
Attn: R. A. Bechtold



Reference: Contract No. MPB-SVV-069146

Dear Ms. Bechtold:

Enclosed is the sample delivery group No. *BOOBJ8* and SOW No. *300-FF-1 Remedial Investigation, Task 5b Vegetation Analysis for CY 1990*. The following samples were received on October 19, 1990:

<i>WHC Sample No.</i>	<i>SAIC Sample No.</i>
BOOBJ8	19816
BOOBJ7	19817
BOOBJ6	19818
BOOBJ9	19819
BOOBJ5	19820
BOOBK0	19822
BOOBH4	19823
BOOBH5	19824
BOOBH6	19825
BOOBH7	19826
BOOBH8	19827
BOOBF4	19828
BOOBF3	19829
BOOBF2	19830
BOOBF1	19832
BOOBF0	19833
BOOBD9	19834
BOOBJ4	19835
BOOB99	19836

3 Choke Cherry Road, Rockville, Maryland 20850 (301) 977-4480

Other SAIC Offices: Albuquerque, Boston, Colorado Springs, Dayton, Huntsville, Las Vegas, Los Angeles, McLean, Oak Ridge, Orlando, Palo Alto, San Diego, Seattle, Tucson



<i>WHC Sample No.</i>	<i>SAIC Sample No.</i>
BOOBB0	19837
BOOBB1	19838
BOOBB2	19839
BOOBB3	19840
BOOBB4	19842
BOOBJ2	19843
BOOBJ3	19844
BOOBK5	19845
BOOBK4	19846
BOOBK3	19847
BOOBK2	19848
BOOBK1	19849
BOOCK7	19850
BOOCL1	19852
BOOCK8	19853
BOOCK9	19854
BOOCK6	19855
BOOCL3	19856
BOOCK3	19857
BOOCL6	19858
BOOCK4	19859
BOOCL4	19860
BOOCK2	19862
BOOCL5	19863
BOOB96	19864

Data is also included for the blanks, replicates, spikes, and lab control samples. Samples were as follows:

<i>Type of Sample</i>	<i>SAIC Sample Numbers</i>
Duplicate	19821
Duplicate	19831
Duplicate	19841



<i>Type of Sample</i>	<i>SAIC Sample Numbers</i>
Duplicate	19851
Duplicate	19861
Blank	<del>Blank 1</del>
Blank	<del>Blank 2</del>
Blank	Blank 3
Blank	Blank 4
Blank	Blank 5
Blank	<del>Blank 6</del>
Blank	Blank 7
Blank	<del>Blank 8</del>
Reference Standard	<del>Spike 1</del> 11, 12, 13, 14
Reference Standard	Spike 2
Reference Standard	Spike 3
Reference Standard	Spike 4
Reference Standard	Spike 5

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Very truly yours,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Farideh Moghadami  
Laboratory Manager

cc: QA Officer

CASE NARRATIVE

Sample Delivery Group No. BOOBJ8 was analyzed in accordance with SAIC's standard operating procedures and the quality assurance program. This group was received on October 19, 1990 and included the following samples:

<i>WHC Sample No.</i>	<i>SAIC Sample No.</i>	<i>Sample Date</i>	<i>Sample Type</i>
BOOBJ8	19816	05/21/90	Asparagus
BOOBJ7	19817	05/21/90	Asparagus
BOOBJ6	19818	05/21/90	Asparagus
BOOBJ9	19819	05/21/90	Asparagus
BOOBJ5	19820	05/21/90	Asparagus
BOOBK0	19822	05/25/90	Asparagus
BOOBH4	19823	05/14/90	Asparagus
BOOBH5	19824	05/14/90	Asparagus
BOOBH6	19825	05/14/90	Asparagus
BOOBH7	19826	05/14/90	Asparagus
BOOBH8	19827	05/14/90	Asparagus
BOOBF4	19828	05/07/90	Asparagus
BOOBF3	19829	05/07/90	Asparagus
BOOBF2	19830	05/07/90	Asparagus
BOOBF1	19832	05/07/90	Asparagus
BOOBF0	19833	05/07/90	Asparagus
BOOBD9	19834	05/07/90	Asparagus
BOOBJ4	19835	05/21/90	Asparagus
BOOB99	19836	04/24/90	Asparagus
BOOBB0	19837	04/24/90	Asparagus
BOOBB1	19838	04/24/90	Asparagus
BOOBB2	19839	04/24/90	Asparagus
BOOBB3	19840	04/24/90	Asparagus
BOOBB4	19842	04/24/90	Asparagus
BOOBJ2	19843	05/14/90	Asparagus
BOOBJ3	19844	05/14/90	Asparagus
BOOBK5	19845	05/25/90	Asparagus
BOOBK4	19846	05/25/90	Asparagus
BOOBK3	19847	05/25/90	Asparagus
BOOBK2	19848	05/25/90	Asparagus
BOOBK1	19849	05/25/90	Asparagus
BOOCK7	19850	06/19/90	CHNA



<i>WHC Sample No.</i>	<i>SAIC Sample No.</i>	<i>Sample Date</i>	<i>Sample Type</i>
BOOCL1	19852	06/19/90	POSA
BOOCK8	19853	06/19/90	CHNA
BOOCK9	19854	06/19/90	POSA
BOOCK6	19855	06/19/90	CHNA
BOOCL3	19856	06/19/90	POSA
BOOCK3	19857	06/19/90	CHNA
BOOCL6	19858	06/19/90	POSA
BOOCK4	19859	06/19/90	CHNA
BOOCL4	19860	06/19/90	POSA
BOOCK2	19862	06/19/90	CHNA
BOOCL5	19863	06/19/90	POSA
BOOB96	19864	04/20/90	Asparagus

No abnormalities, problems, or deviations from accepted procedures were identified except those noted as follows:

<i>Issue</i>	<i>Reason</i>
High reported value on total uranium. Sample #s 19855 and 19857.	<p>The total uranium was calculated from isotopic uranium in all of the samples. The samples noted have a higher value for total uranium because the sample size was small and in some cases there was tailing from the tracer peak. The laboratory normally uses half of the sample for analysis and half for archive in case there is a problem or a re-analysis is requested.</p> <p>The amount of sample available for sample 19855 was less than 5.0 grams. The isotopic detection limit was met but the total uranium was high due to the size of sample and the detection limit of the uranium 235.</p>

*Issue*

*Reason*

Sample 19857 reports a positive value for the uranium 234. This is due to the tail of the uranium 232 tracer peak. When 234 uranium is actually present in a sample uranium 238 is generally also present in approximately the same concentration.



**Westinghouse Hanford Company**

Westinghouse Hanford Company  
A subsidiary of Westinghouse Electric Corporation  
P.O. Box 1970 Richland, Wa. 99352

**RELEASE TO SHIP**

**41440**

MO	DAY	YR
10	12	90

DATE SHIPPED		
MO	DAY	YR

VENDOR CODE  
**55922**

PURCHASE ORDER REF  
**MPB-SVY-069146**

SHIP TO  
**SCIENCE APPLICATIONS INTERNATIONAL CORP.  
LABORATORY SERVICES DIVISION  
3 CHOKE CHERRY ROAD  
ROCKVILLE MD 20850-4087  
ATTN: RADWASTE SAMPLE COORDINATOR**

FOR ACCOUNT OF  
**WESTINGHOUSE HANFORD COMPANY  
PO BOX 1970  
RICHLAND WA 99352**

F.O.B. <b>ROCKVILLE MD</b>	CAR INITIALS AND NO.	FRT. CHGS. 1. VENDOR 2. WESTINGHOUSE HANFORD <b>2</b>	BUYER CODE <b>PB</b>	BUYER NAME <b>P. D. BRAUN</b>	PHONE <b>6-5762</b>
B/L	B/L WEIGHT <i>5.000</i>	ROUTING <b>AIRBORNE OR FEDERAL EXPRESS</b>	RETURN DUE DATE <b>TBD</b>	REQUISITION NO. <b>069146</b>	

P/O ITEM	QUANTITY	U.M.	DESCRIPTION	AMOUNT
	<b>5</b>	<b>EA</b>	<b>BOXES CONDENSERS OF VEGETATION SAMPLES</b>  <i>10/18/90</i>	

REDISTRIBUTE COST  YES  NO SPECIAL PACKAGING REQUIRED  YES  NO

REASON FOR SHIPMENT <b>F</b>	A. RETURN FOR CREDIT B. RETURN FOR REPLACEMENT C. RETURN FOR REPAIR D. RETURN VENDOR-OWNED RETURNABLE CONTAINER	E. RETURN OVERSHIPMENTS F. RETURN SAMPLE G. RETURN VENDOR-OWNED MATERIAL OR EQUIPMENT H. SHIP GOVERNMENT-OWNED TOOLS, JIGS, AND FIXTURES I. SHIP EXCHANGE UNITS (CORE)	J. SHIP MATERIAL OR EQUIPMENT FOR REPAIR OR REBUILD K. SHIP MATERIAL OR EQUIPMENT FOR REPAIR ESTIMATE L. SHIP GOVERNMENT-OWNED RETURNABLE CONTAINER M. SHIP GOVERNMENT-OWNED MATERIAL FOR USE IN FABRICATION N. MISCELLANEOUS-
---------------------------------	--	--	--

HAZARDOUS MATERIAL  YES  NO IF YES, HAZARDOUS MATERIAL FORM IS REQUIRED TO ACCOMPANY MATERIAL.

LOCATION OF MATERIAL <b>TO BE DELIVERED TO SHIPPING</b>	TOTAL PIECES <b>5</b>	RM CLEARANCE FOR PUBLIC SALE	SURVEY NO.
CUSTODIAN <b>R. A. RECHTOLD</b>	PHONE <b>3-3448</b>	DATE AVAILABLE FOR SHIPMENT <b>10-16-90</b>	DATE <b>10-12-90</b>
ITEM <b>M</b>	CO ID <b>16500</b>	COST CENTER <b>210</b>	MC <b>EC32Y</b>
COST ELEMENT <b>100</b>	CHARGE CODE <b>100</b>	% OF COST <b>100</b>	AUTHORIZED BY <b>P. D. BRAUN</b>
			FOR DOE <b>10-12-90</b>
			FOR SHIPPING OPERATION <b>10-12-90</b>

1-ACCOUNTS PAYABLE COPY  
3-PROPERTY MANAGEMENT COPY  
5-PACKING LIST COPY  
7-CUSTODIAN COPY-2

2-BUYER'S COPY  
4-SHIPING COPY  
6-CUSTODIAN COPY-1  
8-PURCHASING COPY

**5**  
5-1



Pacific Northwest Laboratories  
Richland, Washington

CHAIN OF CUSTODY

CAB 031

Company Contact: CHARLES A. BRANDT Telephone: 376-5345

Samples Collected by: NA Date: \_\_\_\_\_ Time: \_\_\_\_\_

Sample Location: NA

Ice Chest No.: NA Field Logbook Page No.: \_\_\_\_\_

Remarks: ISOTOPIC URANIUM SPLITS

Method of Shipment: HAND CARRY

Sample Identification			
New Number	Parent Number	New Number	Parent Number
X/B00B17	B009C8	X/B00BF4	B00984 X
X/B00B17	B009C7	X/B00BF3	B00983 X
X/B00B16	B009C6	X/B00BF2	B00982 X
X/B00B19	B009C9	X/B00BF1	B00981 X
X/B00B18	B009C5	X/B00BF0	B00980 X
X/B00B18	B009D0	X/B00BD9	B00979 X
X/B00B14	B009B4	X/B00BJ4	B009C4 X
X/B00B15	B009B5	X/B00B99	ASP6023 X
X/B00B16	B009B6	X/B00B00	ASP6024 X
X/B00B17	B009B7	X/B00B11	ASP6025 X
X/B00B18	B009B8	X/B00B22	ASP6026 X
X/B00B33	ASP6027	X/B00CK8	B009P5 X
X/B00B34	ASP6028	X/B00CK9	B009P6 X
X/B00B12	B009C2	X/B00CK6	B009P3 X
X/B00B13	B009C3	X/B00CL3	B009P4 X
X/B00BK5	B009D5	X/B00CK3	B009P1 X
X/B00BK4	B009D4	X/B00CL6	B009P2 X
X/B00BK3	B009D3	X/B00CK4	B009N9 X
X/B00BK2	B009D2	X/B00CL4	B009P0 X
X/B00BK1	B009D1	X/B00CK2	B009N7 X
X/B00CK7	B009P7	X/B00CL5	B009N8 X
X/B00CL1	B009P8	X/B00B96	ASP6020 X

12 of 13  
Glass  
Bottle

Chain of Possession

Relinquished by:  
RJ Hillard

Received by:  
Gordon Stewart

Date/Time:  
10/17/90 11:00 AM

Relinquished by:  
\_\_\_\_\_

Received by:  
A. Ricka SAIC

Date/Time:  
10/18/90 1030

Relinquished by:  
\_\_\_\_\_

Received by:  
\_\_\_\_\_

Date/Time:  
\_\_\_\_\_

Relinquished by:  
\_\_\_\_\_

Received by:  
\_\_\_\_\_

Date/Time:  
\_\_\_\_\_

U #	Site #	Parent #	Stratum	Sample Date	Sample Type
B00BJ8	19816	B009C8	300 Downriver	05/21/90	Asparagus
B00BJ7	19817	B009C7	300 Downriver	05/21/90	Asparagus
B00BJ6	19818	B009C6	300 Downriver	05/21/90	Asparagus
B00BJ9	19819	B009C9	300 Downriver	05/21/90	Asparagus
B00BJ5	19820-21	B009C5	300 Downriver	05/21/90	Asparagus
B00BK0	19822	B009D0	300 Downriver	05/25/90	Asparagus
B00BH4	19823	B009B4	Benton City	05/14/90	Asparagus
B00BH5	19824	B009B5	Benton City	05/14/90	Asparagus
B00BH6	19825	B009B6	Benton City	05/14/90	Asparagus
B00BH7	19826	B009B7	Benton City	05/14/90	Asparagus
B00BH8	19827	B009B8	Benton City	05/14/90	Asparagus
B00BF4	19828	B00984	Downriver	05/07/90	Asparagus
B00BF3	19829	B00983	Downriver	05/07/90	Asparagus
B00BF2	19830-31	B00982	Downriver	05/07/90	Asparagus
B00BF1	19832	B00981	Downriver	05/07/90	Asparagus
B00BF0	19833	B00980	Downriver	05/07/90	Asparagus
B00BD9	19834	B00979	Downriver	05/07/90	Asparagus
B00BJ4	19835	B009C4	Downriver	05/21/90	Asparagus
B00B99	19836	ASPG023	Hanford Townsite	04/24/90	Asparagus
B00BB0	19837	ASPG024	Hanford Townsite	04/24/90	Asparagus
B00BB1	19838	ASPG025	Hanford Townsite	04/24/90	Asparagus
B00BB2	19839	ASPG026	Hanford Townsite	04/24/90	Asparagus
B00BB3	19840-41	ASPG027	Hanford Townsite	04/24/90	Asparagus
B00BB4	19842	ASPG028	Hanford Townsite	04/24/90	Asparagus
B00BJ2	19843	B009C2	Operable Unit	05/14/90	Asparagus
B00BJ3	19844	B009C3	Operable Unit	05/14/90	Asparagus
B00BK5	19845	B009D5	Operable Unit	05/25/90	Asparagus
B00BK4	19846	B009D4	Operable Unit	05/25/90	Asparagus
B00BK3	19847	B009D3	Operable Unit	05/25/90	Asparagus
B00BK2	19848	B009D2	Operable Unit	05/25/90	Asparagus
B00BK1	19849	B009D1	Operable Unit	05/25/90	Asparagus
B00CK7	19850-1	B009P7	Operable Unit	06/19/90	CHNA
B00CL1	19852	B009P8	Operable Unit	06/19/90	POSA
B00CK8	19853	B009P5	Operable Unit	06/19/90	CHNA
B00CK9	19854	B009P6	Operable Unit	06/19/90	POSA
B00CK6	19855	B009P3	Operable Unit	06/19/90	CHNA
B00CL3	19856	B009P4	Operable Unit	06/19/90	POSA
B00CK3	19858	B009P1	Operable Unit	06/19/90	CHNA
B00CL6	19858	B009P2	Operable Unit	06/19/90	POSA
BOOCK4	19859	B009N9	Operable Unit	06/19/90	CHNA

U #	Parent #	Stratum	Sample Date	Sample Type
B00CL4 19860-1	B009P0	Operable Unit	06/19/90	POSA
B00CK2 19862	B009N7	Operable Unit	06/19/90	CHNA
B00CL5 19863	B009N8	Operable Unit	06/19/90	POSA
B00B96 19864	ASPG020	South Plateau	04/20/90	Asparagus
B00B98 19865	ASPG022	South Plateau	04/20/90	Asparagus
B00B95 19866	ASPG019	South Plateau	04/20/90	Asparagus
B00B97 19867	ASPG021	South Plateau	04/20/90	Asparagus
B00BD3 19868	ASPG047	South Plateau	04/26/90	Asparagus
B00BD4 19869	ASPG048	South Plateau	04/26/90	Asparagus
B00BP0 19870-1	B00BK6	Operable Unit	06/19/90	Asparagus
B00BP1 19872	B00BK7	Operable Unit	06/19/90	Asparagus
B00BF9 19873	B00989	Sunnyside	05/08/90	Asparagus
B00BG0 19874	B00990	Sunnyside	05/08/90	Asparagus
B00BG1 19875	B00991	Toppenish	05/08/90	Asparagus
B00BG2 19876	B00992	Toppenish	05/08/90	Asparagus
B00BB5 19877	ASPG029	Taylor Flats	04/25/90	Asparagus
B00BB6 19878	ASPG030	Taylor Flats	04/25/90	Asparagus
B00BB7 19879	ASPG031	Taylor Flats	04/25/90	Asparagus
B00BB8 19880-1	ASPG032	Taylor Flats	04/25/90	Asparagus
B00BB9 19882	ASPG033	Taylor Flats	04/25/90	Asparagus
B00BC0 19883	ASPG034	Taylor Flats	04/25/90	Asparagus
B00BC1 19884	ASPG035	Taylor Flats	04/25/90	Asparagus
B00BC2 19885	ASPG036	Taylor Flats	04/25/90	Asparagus
B00BC3 19886	ASPG037	Taylor Flats	04/25/90	Asparagus
B00BC4 19887	ASPG038	Taylor Flats	04/25/90	Asparagus
B00BC5 19888	ASPG039-	Taylor Flats	04/25/90	Asparagus
B00BC6 19889	ASPG040	Taylor Flats	04/25/90	Asparagus
B00BC7 19890-1	ASPG041	Taylor Flats	04/25/90	Asparagus
B00BC8 19892	ASPG042	Taylor Flats	04/25/90	Asparagus
B00BC9 19893	ASPG043	Taylor Flats	04/25/90	Asparagus
B00BD0 19894	ASPG044	Taylor Flats	04/25/90	Asparagus
B00BD1 19895	ASPG045	Taylor Flats	04/25/90	Asparagus
B00BD2 19896	ASPG046	Taylor Flats	04/25/90	Asparagus
B00BG3 19897	B00993	Sunnyside	05/11/90	Asparagus
B00BG4 19898	B00994	Sunnyside	05/11/90	Asparagus
B00BG5 19899	B00995	Sunnyside	05/11/90	Asparagus
B00BG6 19900-1	B00996	Sunnyside	05/11/90	Asparagus
B00BG7 19902	B00997	Sunnyside	05/11/90	Asparagus
B00BG8 19903	B00998	Toppenish	05/11/90	Asparagus
B00BG9 19904	B00999	Toppenish	05/11/90	Asparagus

<i>U #</i>	<i>Parent #</i>	<i>Stratum</i>	<i>Sample Date</i>	<i>Sample Type</i>
B00BH0 19905	B009B0	Toppenish	05/11/90	Asparagus
B00BH1 19906	B009B1	Toppenish	05/11/90	Asparagus
B00BH2 19907	B009B2	Toppenish	05/11/90	Asparagus
B00BH3 19908	B009B3	Toppenish	05/11/90	Asparagus
B00BD5 19909	B00975	Upriver	05/03/90	Asparagus
B00BD6 19910-1	B00976	Upriver	05/03/90	Asparagus
B00BD8 19912	B00978	Upriver	05/03/90	Asparagus
B00BD7 19913	B00977	Upriver	05/03/90	Asparagus
B00BJ1 19914	B009C1	Upriver	05/14/90	Asparagus
B00BJ0 19915	B009C0	Upriver	05/14/90	Asparagus
B00BH9 19916	B009B9	Upriver	05/14/90	Asparagus
B00CK5 19917	B009P9	Upriver	06/20/90	CHNA
B00CL2 19918	B009Q0	Upriver	06/20/90	POSA
B00CK1 19919	B009Q1	Upriver	06/20/90	CHNA
B00CL0 19920-1	B009Q2	Upriver	06/20/90	POSA
B00BF8 19922	B00988	West	05/07/90	Asparagus
B00BF7 19923	B00987	West	05/07/90	Asparagus
B00BF5 19924	B00985	West	05/07/90	Asparagus
B00BF6 19925	B00986	West	05/07/90	Asparagus

Document Control Group No: **BOOBJ8**

BBJ8-006 Data Report

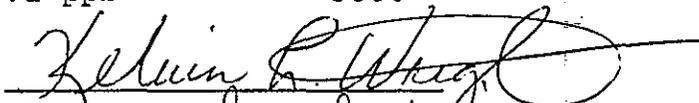


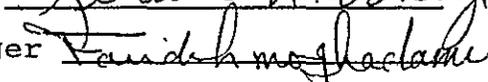
An Employee-Owned Company

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/03/90  
SAIC Sample No: 19816  
Plant Sample No: B00BJ8  
Volume/Weight: 1.0237E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<3.80E-02 pCi/g	100%
U-235	<1.10E-02 pCi/g	100%
U-238	<2.90E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19817  
Plant Sample No: B00BJ7  
Volume/Weight: 1.0507E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<5.00E-02 pCi/g	100%
U-235	<2.40E-02 pCi/g	100%
U-238	<8.90E-03 pCi/g	100%
Total U	0.0 ppb	300%

Project Manager

Laboratory Manager



The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19818  
Plant Sample No: B00BJ6  
Volume/Weight: 8.8388E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<3.30E-02 pCi/g	100%
U-235	<2.50E-02 pCi/g	100%
U-238	<7.60E-02 pCi/g	100%
Total U	0.2 ppp	300%

Project Manager

Laboratory Manager

*Kellum L. H. H. H.*  
*Fandeh M. Ghahramani*

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19819  
Plant Sample No: B00BJ9  
Volume/Weight: 9.4920E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<9.52E-02 pCi/g	100%
U-235	<6.39E-02 pCi/g	100%
U-238	<3.91E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

*Kelvin L. White*  
*Frank W. Jackson*

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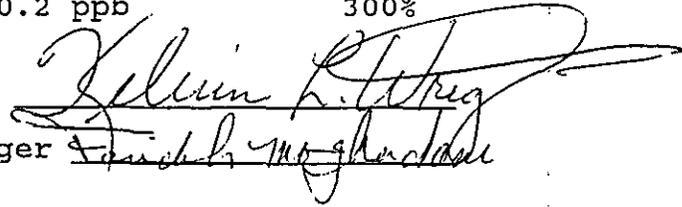
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19820  
Plant Sample No: B00BJ5  
Volume/Weight: 9.8782E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<1.10E-01 pCi/g	100%
U-235	<6.30E-02 pCi/g	100%
U-238	<4.50E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager



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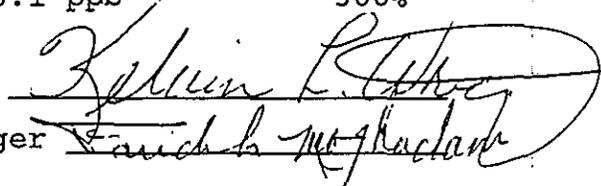
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19821  
Plant Sample No: Duplicate B00BJ5 (19820)  
Volume/Weight: 9.8782E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	<1.00E-01 pCi/g	100%
U-235	<5.70E-02 pCi/g	100%
U-238	<3.60E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19822  
Plant Sample No: B00BK0  
Volume/Weight: 9.4281E-00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 7.60E-02 pCi/g	100%
U-235	< 4.60E-02 pCi/g	100%
U-238	< 4.50E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager

*Kelvin L. [Signature]*  
*Fandi B. [Signature]*

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19823  
Plant Sample No: B00BH4  
Volume/Weight: 1.1034E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 7.80E-02 pCi/g	100%
U-235	< 4.00E-02 pCi/g	100%
U-238	< 4.30E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19824  
Plant Sample No: B00BH5  
Volume/Weight: 1.1312E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 6.70E-02 pCi/g	100%
U-235	< 2.30E-02 pCi/g	100%
U-238	< 3.80E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

*[Handwritten signature: Kevin L. White]*  
*[Handwritten signature: Farid M. Jha]*

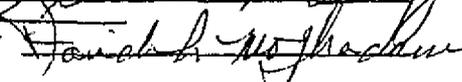
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
 TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
 Sample Type: Asparagus  
 Reference Date: 05/14/90  
 Receipt Date: 10/19/90  
 Reporting Date: 12/07/90  
 SAIC Sample No: 19825  
 Plant Sample No: B00BH6  
 Volume/Weight: 1.0723E+01 g (dry)  
 Purchase Order No: MPB-SVV-069146  
 SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.00E-02 pCi/g	100%
U-235	< 2.00E-02 pCi/g	100%
U-238	7.07E-03 pCi/g	64%
Total U	0.0 ppb	264%

Project Manager 

Laboratory Manager 

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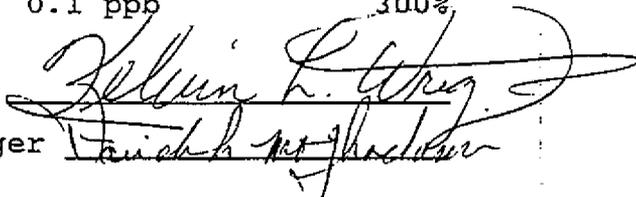
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19826  
Plant Sample No: B00BH7  
Volume/Weight: 1.0509E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.00E-02 pCi/g	100%
U-235	< 2.30E-02 pCi/g	100%
U-238	1.30E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



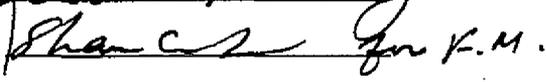
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19827  
Plant Sample No: B00BH8  
Volume/Weight: 1.0818E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.77E-02 pCi/g	100%
U-235	< 5.00E-02 pCi/g	100%
U-238	< 1.87E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager  for F.M.

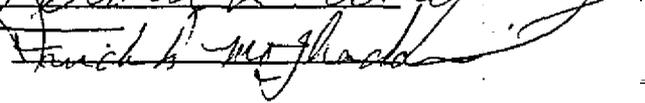
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19828  
Plant Sample No: B00BF4  
Volume/Weight: 9.9025E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.60E-02 pCi/g	100%
U-235	< 1.20E-02 pCi/g	100%
U-238	< 2.00E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

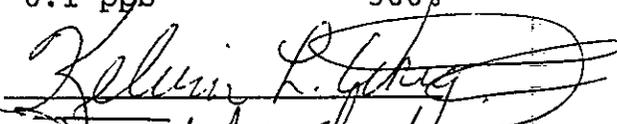
Laboratory Manager 

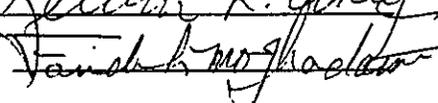
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19829  
Plant Sample No: B00BF3  
Volume/Weight: 1.0284E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount	
	Value	Unc.
U-234	< 4.20E-02 pCi/g	100%
U-235	< 3.20E-02 pCi/g	100%
U-238	< 2.40E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19830  
Plant Sample No: B00BF2  
Volume/Weight: 8.9931E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 5.70E-02 pCi/g	100%
U-235	< 2.60E-02 pCi/g	100%
U-238	< 1.20E-02 pCi/g	100%
Total U	0.0 ppb	300%

Project Manager

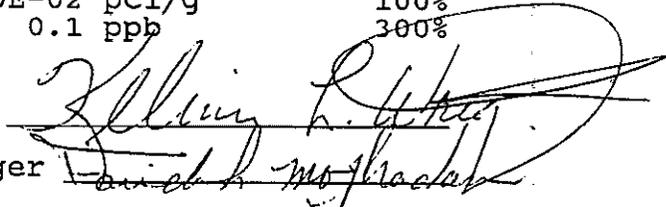
Laboratory Manager

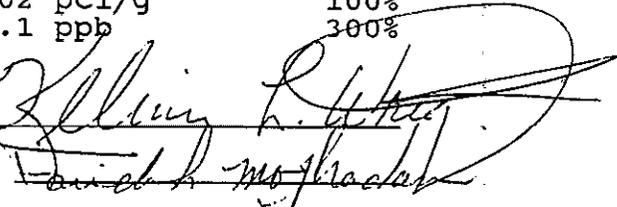
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19831  
Plant Sample No: Duplicate B00BF2 (19830)  
Volume/Weight: 8.9931E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.80E-02 pCi/g	100%
U-235	< 3.60E-02 pCi/g	100%
U-238	< 3.10E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

Laboratory Manager 

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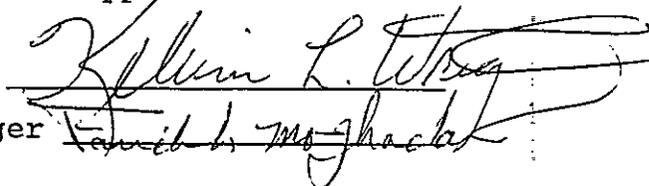
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19832  
Plant Sample No: B00BF1  
Volume/Weight: 1.0505E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.30E-02 pCi/g	100%
U-235	< 1.90E-02 pCi/g	100%
U-238	< 3.00E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19833  
Plant Sample No: B00BF0  
Volume/Weight: 9.9055E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.00E-02 pCi/g	100%
U-235	< 1.40E-02 pCi/g	100%
U-238	< 1.80E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

*[Handwritten signature: William L. ...]*  
*[Handwritten signature: ...]*

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/07/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19834  
Plant Sample No: B00BD9  
Volume/Weight: 9.9608E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	8.40E-02 pCi/g	31%
U-235	< 1.70E-02 pCi/g	100%
U-238	< 2.10E-02 pCi/g	100%
Total U	0.3 ppb	61%

Project Manager

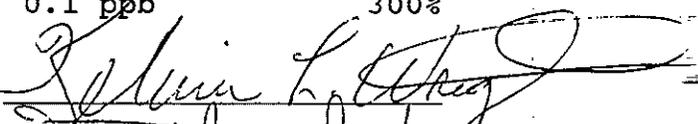
Laboratory Manager

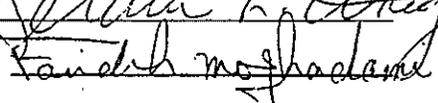
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/21/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19835  
Plant Sample No: B00BJ4  
Volume/Weight: 1.0055E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.30E-02 pCi/g	100%
U-235	< 1.60E-02 pCi/g	100%
U-238	< 2.20E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

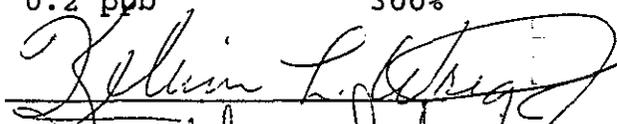
Laboratory Manager 

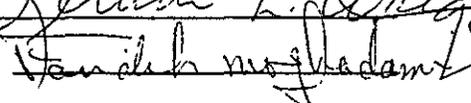
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19836  
Plant Sample No: B00B99  
Volume/Weight: 1.0665E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.00E-02 pCi/g	100%
U-235	< 4.40E-02 pCi/g	100%
U-238	< 4.50E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager 

Laboratory Manager 

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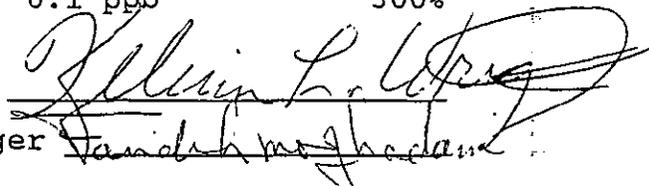
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19837  
Plant Sample No: B00BBO  
Volume/Weight: 1.0408E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount	
	Value	Unc.
U-234	< 9.30E-02 pCi/g	100%
U-235	< 4.70E-02 pCi/g	100%
U-238	< 3.50E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19838  
Plant Sample No: B00BB1  
Volume/Weight: 1.0451E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.00E-02 pCi/g	100%
U-235	< 1.90E-02 pCi/g	100%
U-238	< 1.20E-02 pCi/g	100%
Total U	0.0 ppb	300%

Project Manager

Laboratory Manager

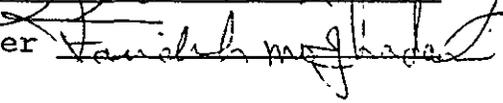
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19839  
Plant Sample No: B00BB2  
Volume/Weight: 1.1264E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.20E-02 pCi/g	100%
U-235	< 3.10E-02 pCi/g	100%
U-238	< 2.20E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

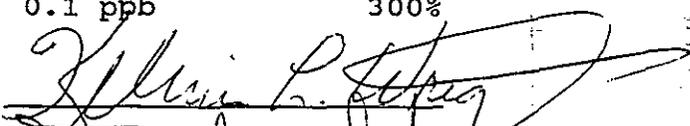
Laboratory Manager 

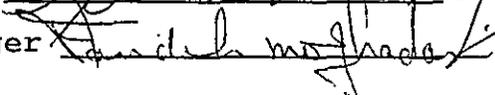
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19840  
Plant Sample No: B00BB3  
Volume/Weight: 1.0917E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.30E-01 pCi/g	100%
U-235	< 4.70E-02 pCi/g	100%
U-238	< 4.10E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager 

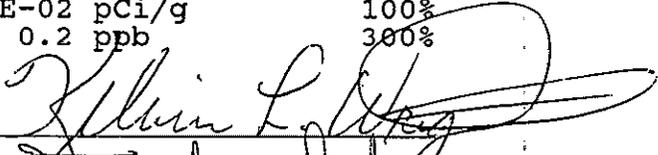
Laboratory Manager 

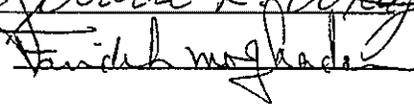
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19841  
Plant Sample No: Duplicate B00BB3 (19840)  
Volume/Weight: 1.0917E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 8.40E-02 pCi/g	100%
U-235	< 6.30E-02 pCi/g	100%
U-238	< 6.80E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager 

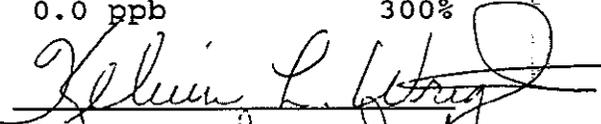
Laboratory Manager 

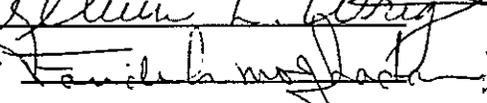
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/24/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19842  
Plant Sample No: B00BB4  
Volume/Weight: 1.0788E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.60E-02 pCi/g	100%
U-235	< 1.00E-02 pCi/g	100%
U-238	< 1.50E-02 pCi/g	100%
Total U	0.0 ppb	300%

Project Manager 

Laboratory Manager 

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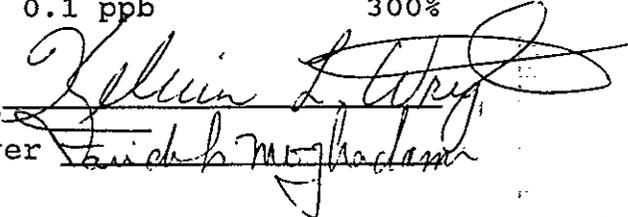
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19843  
Plant Sample No: B00BJ2  
Volume/Weight: 1.0011E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.10E-01 pCi/g	100%
U-235	< 5.10E-02 pCi/g	100%
U-238	< 3.80E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



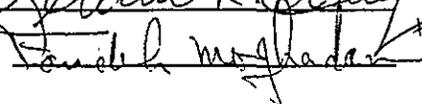
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/14/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19844  
Plant Sample No: B00BJ3  
Volume/Weight: 9.1446E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 9.50E-02 pCi/g	100%
U-235	< 7.30E-02 pCi/g	100%
U-238	< 6.70E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager 

Laboratory Manager 

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19845  
Plant Sample No: B00BK5  
Volume/Weight: 9.6220E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.40E-02 pCi/g	100%
U-235	< 2.50E-02 pCi/g	100%
U-238	< 2.30E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

*Kevin L. [Signature]*  
*[Signature]*

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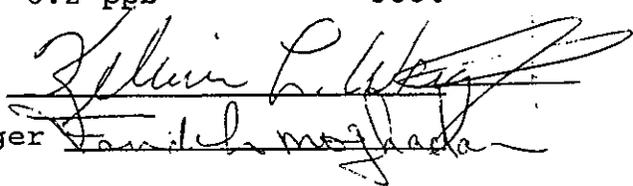
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19846  
Plant Sample No: B00BK4  
Volume/Weight: 1.0348E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.10E-01 pCi/g	100%
U-235	< 9.20E-02 pCi/g	100%
U-238	< 6.80E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19847  
Plant Sample No: B00BK3  
Volume/Weight: 9.9050E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.10E-01 pCi/g	100%
U-235	< 4.90E-02 pCi/g	100%
U-238	< 2.60E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager

*William L. Wang*  
*Ferdinand Magallanes*

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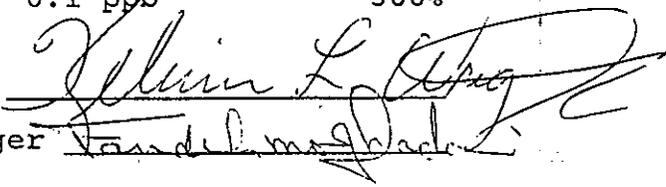
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19848  
Plant Sample No: B00BK2  
Volume/Weight: 1.0203E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 1.30E-01 pCi/g	100%
U-235	< 4.10E-02 pCi/g	100%
U-238	< 4.20E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



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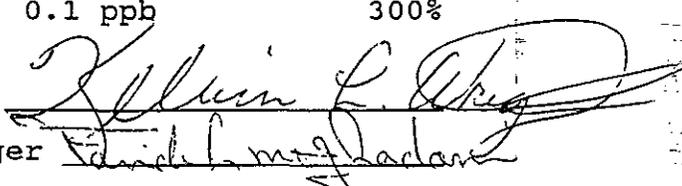
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 05/25/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19849  
Plant Sample No: B00BK1  
Volume/Weight: 9.9420E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 8.40E-02 pCi/g	100%
U-235	< 4.50E-02 pCi/g	100%
U-238	< 2.80E-02 pCi/g	100%
Total U	0.1 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19850  
Plant Sample No: B00CK7  
Volume/Weight: 4.8661E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 9.40E-02 pCi/g	100%
U-235	< 9.50E-02 pCi/g	100%
U-238	< 3.50E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

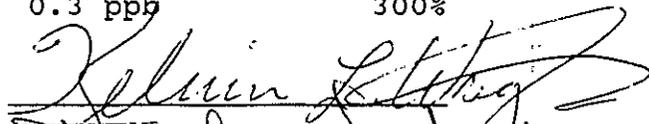
Laboratory Manager

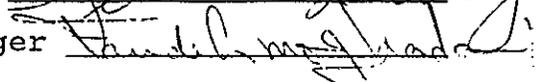
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19851  
Plant Sample No: Duplicate B00CK8 (19853)  
Volume/Weight: 8.85052E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.30E-01 pCi/g	100%
U-235	< 8.50E-02 pCi/g	100%
U-238	< 8.90E-02 pCi/g	100%
Total U	0.3 ppb	300%

Project Manager 

Laboratory Manager 

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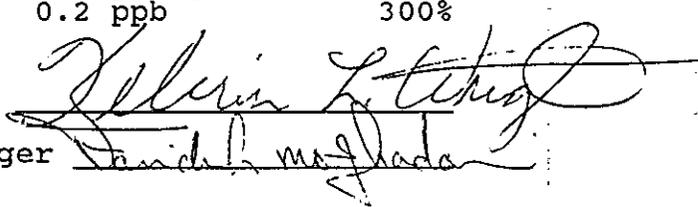
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: POSA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19852  
Plant Sample No: B00CL1  
Volume/Weight: 7.3437E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.30E-01 pCi/g	100%
U-235	< 1.00E-01 pCi/g	100%
U-238	< 5.30E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager



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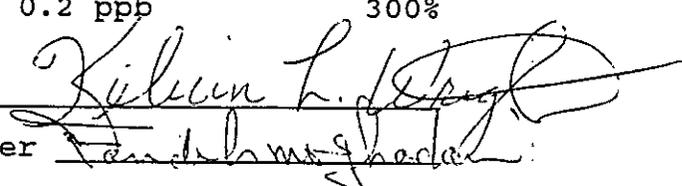
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19853  
Plant Sample No: B00CK8  
Volume/Weight: 8.5052E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 9.90E-02 pCi/g	100%
U-235	< 7.20E-02 pCi/g	100%
U-238	< 3.90E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager



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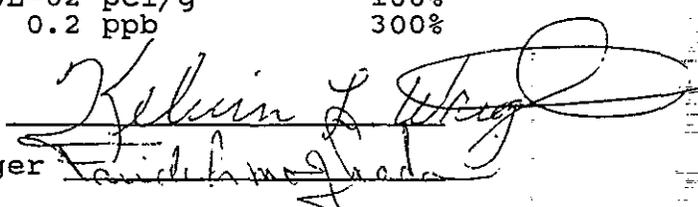
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: POSA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19854  
Plant Sample No: B00CK9  
Volume/Weight: 5.5570E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.40E-02 pCi/g	100%
U-235	< 3.40E-02 pCi/g	100%
U-238	< 4.80E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager

Laboratory Manager



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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19855  
Plant Sample No: B00CK6  
Volume/Weight: 4.7455E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	2.52E-01 pCi/g	39%
U-235	< 8.10E-02 pCi/g	100%
U-238	< 1.50E-01 pCi/g	100%
Total U	1.2 ppb	107%

Project Manager

Laboratory Manager

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: POSA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19856  
Plant Sample No: B00CL3  
Volume/Weight: 5.5159E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.10E-01 pCi/g	100%
U-235	< 6.90E-02 pCi/g	100%
U-238	< 9.30E-02 pCi/g	100%
Total U	0.3 ppb	300%

Project Manager

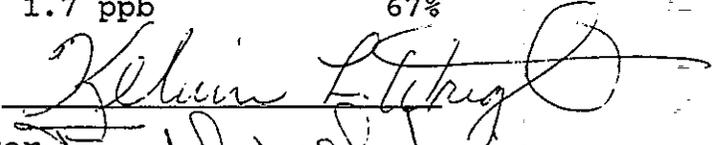
Laboratory Manager

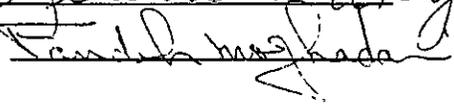
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19857  
Plant Sample No: B00CK3  
Volume/Weight: 5.4492E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	4.29E-01 pCi/g	28%
U-235	< 1.10E-01 pCi/g	100%
U-238	< 1.40E-01 pCi/g	100%
Total U	1.7 ppb	67%

Project Manager 

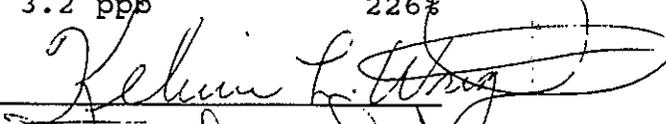
Laboratory Manager 

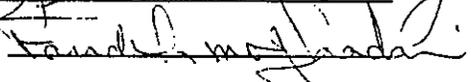
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
 Sample Type: POSA  
 Reference Date: 06/19/90  
 Receipt Date: 10/19/90  
 Reporting Date: 12/07/90  
 SAIC Sample No: 19858  
 Plant Sample No: B00CL6  
 Volume/Weight: 4.4624E+00 g (dry)  
 Purchase Order No: MPB-SVV-069146  
 SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 4.80E-01 pCi/g	100%
U-235	< 1.20E-01 pCi/g	100%
U-238	1.03E+00 pCi/g	26%
Total U	3.2 ppb	226%

Project Manager 

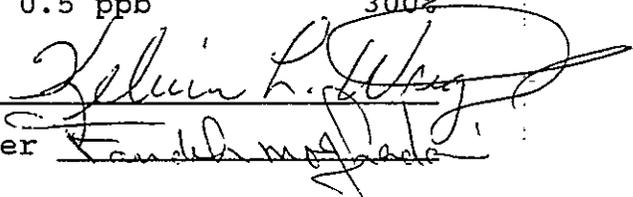
Laboratory Manager 

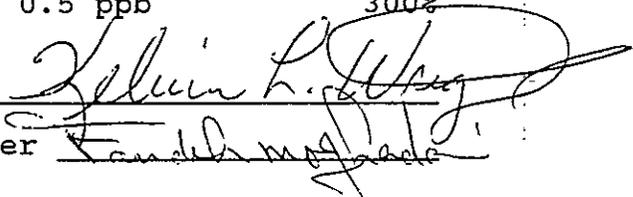
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19859  
Plant Sample No: B00CK4  
Volume/Weight: 5.4065E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 3.30E-01 pCi/g	100%
U-235	< 1.80E-01 pCi/g	100%
U-238	< 1.30E-01 pCi/g	100%
Total U	0.5 ppb	300%

Project Manager 

Laboratory Manager 

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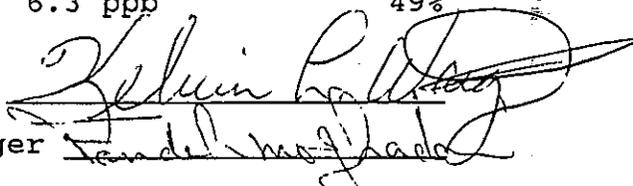
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: POSA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19860  
Plant Sample No: B00CL4  
Volume/Weight: 5.0083E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	1.11E+00 pCi/g	22%
U-235	< 2.30E-01 pCi/g	100%
U-238	9.89E-01 pCi/g	25%
Total U	6.3 ppb	49%

Project Manager

Laboratory Manager



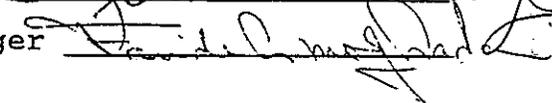
The data contained in this report were produced and documented in accordance with approved quality control and quality assurance procedures. All of the results are decay corrected to the reference date listed above. Indicated errors are two(2) standard deviations based on counting statistics only.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19861  
Plant Sample No: Duplicate B00CK2 (19862)  
Volume/Weight: 4.4296E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 2.70E-01 pCi/g	100%
U-235	< 1.20E-01 pCi/g	100%
U-238	< 1.90E-01 pCi/g	100%
Total U	0.6 ppb	300%

Project Manager 

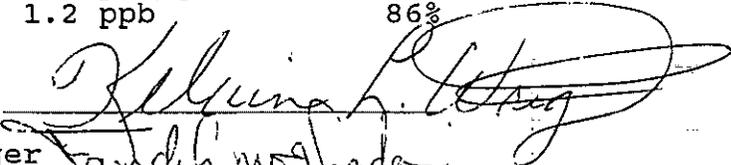
Laboratory Manager 

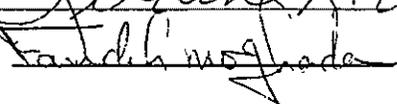
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: CHNA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19862  
Plant Sample No: B00CK2  
Volume/Weight: 4.4296E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	2.34E-01 pCi/g	46%
U-235	< 1.30E-01 pCi/g	100%
U-238	1.63E-01 pCi/g	41%
Total U	1.2 ppb	86%

Project Manager 

Laboratory Manager 

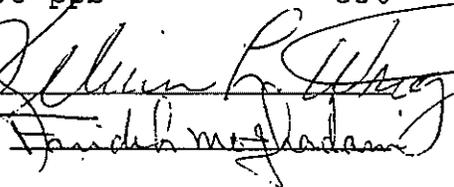
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: POSA  
Reference Date: 06/19/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19863  
Plant Sample No: B00CL5  
Volume/Weight: 5.7882E+00 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	4.14E-01 pCi/g	26%
U-235	< 6.00E-02 pCi/g	100%
U-238	3.47E-01 pCi/g	27%
Total U	2.3 ppb	53%

Project Manager 

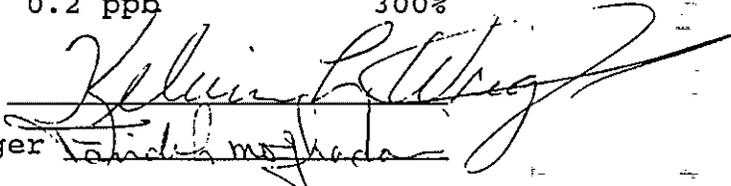
Laboratory Manager 

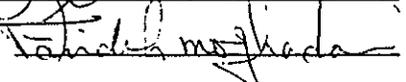
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION  
TOTAL URANIUM SAMPLE ANALYSIS REPORT

Plant Name: Westinghouse Hanford  
Sample Type: Asparagus  
Reference Date: 04/20/90  
Receipt Date: 10/19/90  
Reporting Date: 12/07/90  
SAIC Sample No: 19864  
Plant Sample No: B00B96  
Volume/Weight: 1.0315E+01 g (dry)  
Purchase Order No: MPB-SVV-069146  
SAIC Project No: 1-139-05-656

	Measured Amount Value	Unc.
U-234	< 6.30E-02 pCi/g	100%
U-235	< 3.70E-02 pCi/g	100%
U-238	< 5.10E-02 pCi/g	100%
Total U	0.2 ppb	300%

Project Manager 

Laboratory Manager 

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SAIC

ANALYTICAL LABORATORY  
 3 CHOKE CHERRY ROAD  
 ROCKVILLE, MD 20850-4037  
 (301) 977-4480

SAIC #	Customer ID	Est	Date Received	Customer	Reference Date	Type	Sub Type	Wt / Wt.	Comments
19814	U# B00B7B	HL	10/19/90	W.H.	5/19/90	Special	Solid	8.7346 g	
19815	U# B00B7C	HL	10/19/90	W.H.	5/19/90	Special	Solid	8.8022 g	
19816	U# B00B7D	HL	10/19/90	W.H.	5/21/90	Special	Solid	10.2949 g <del>10.3050 g</del>	Leak in jar
19817	U# B00B7E	HL	10/19/90	W.H.	5/21/90	Special	Solid	10.5046 g	
19818	U# B00B7F	HL	10/19/90	W.H.	5/21/90	Special	Solid	8.8382 g	
19819	U# B00B7G	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.4920 g	
19820	Duplicate U# B00B7H	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.8782 g	
19821	Duplicate U# B00B7I	HL	10/19/90	W.H.	5/21/90	Special	Solid	9.8782 g	
19822	U# B00B7J	HL	10/19/90	W.H.	5/25/90	Special	Solid	9.4201 g	
19823	U# B00B7K	HL	10/19/90	W.H.	5/14/90	Special	Solid	11.0340 g	
19824	U# B00B7L	HL	10/19/90	W.H.	5/14/90	Special	Solid	11.3118 g	
19825	U# B00B7M	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.7233 g	
19826	U# B00B7N	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.5087 g	
19827	U# B00B7O	HL	10/19/90	W.H.	5/14/90	Special	Solid	10.8192 g	
19828	U# B00B7P	HL	10/19/90	W.H.	5/7/90	Special	Solid	9.9225 g	
19829	U# B00B7Q	HL	10/19/90	W.H.	5/7/90	Special	Solid	10.2843 g	
19830	U# B00B7R	HL	10/19/90	W.H.	5/7/90	Special	Solid	8.9131 g	

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SAIC Employee Owned Company

SAIC  
 ANALYTICAL LABORATORY  
 3 CHOKE CREEK ROAD  
 ROCKVILLE, MD 20850-4301  
 (301) 977-1430

SAIC #	Customer ID	Last Date Received	Customer Address	Sample Reference	Type	Sub Type	Net Wt	Comments
19831	Supplcate 1800853	10/19/90	W.H.	5/17/90	Special	Sold	8.931 g	442g
19832	1800851	10/19/90	W.H.	5/17/90	Special	Sold	10.5048 g	
19833	1800850	10/19/90	W.H.	5/17/90	Special	Sold	9.9055 g	
19834	1800850	10/19/90	W.H.	5/17/90	Special	Sold	9.8408 g	
19835	1800851	10/19/90	W.H.	5/17/90	Special	Sold	10.4574 g	
19836	1800899	10/19/90	W.H.	5/17/90	Special	Sold	10.4488 g	
19837	1800800	10/19/90	W.H.	5/17/90	Special	Sold	10.4625 g	
19838	1800851	10/19/90	W.H.	5/17/90	Special	Sold	11.2043 g	
19839	1800852	10/19/90	W.H.	5/17/90	Special	Sold	10.9169 g	
19840	1800853	10/19/90	W.H.	5/17/90	Special	Sold	10.5189 g	
19841	Supplcate 1800853	10/19/90	W.H.	5/17/90	Special	Sold	10.5025 g	
19842	1800854	10/19/90	W.H.	5/17/90	Special	Sold	10.4174 g	
19843	1800852	10/19/90	W.H.	5/17/90	Special	Sold	9.4474 g	
19844	1800853	10/19/90	W.H.	5/17/90	Special	Sold	9.4220 g	
19845	1800855	10/19/90	W.H.	5/17/90	Special	Sold	10.3484 g	
19846	1800854	10/19/90	W.H.	5/17/90	Special	Sold	9.8459 g	

SAIC  
 ANALYTICAL LABORATORY  
 3 CHOKE CREEK ROAD  
 ROCKVILLE, MD 20850-4301  
 (301) 977-1430

SAIC  
ANALYTICAL LABORATORY  
3 CHOKE CHERRY ROAD  
ROCKVILLE, MD 20850-4087  
(301) 977-4480

22

IC# Customer ID

348 #B00BK2

349 #B00BK1

350 #B00CK7

351 Duplicate U# B00CK8

352 #B00CL1

353 #B00CK8

354 #B00CK9

355 #B00CK6

356 #B00CL3

357 #B00CK3

358 #B00CL6

359 #B00CK4

360 U# B00CLA

361 Duplicate U# B00CL5 B00CK2

362 #B00CK5

363 #B00CL5

364 #B00CK4

IC#	Customer ID	Date Received	Customer	Sample Reference	Type	Sub Type	Net Wt.	Comments
348	#B00BK2	10/19/90	W.H.	5/24/90	Special	Solid	10.2028 g	
349	#B00BK1	10/19/90	W.H.	5/25/90	Special	Solid	9.9424 g	
350	#B00CK7	11/19/90	W.H.	6/19/90	Special	Solid	7.8061 g	
351	Duplicate U# B00CK8	10/19/90	W.H.	6/19/90	Special	Solid	8.5292 g <del>4.4077 g</del>	Changed duplicate prior to issue. ok
352	#B00CL1	10/19/90	W.H.	6/19/90	Special	Solid	7.3437 g	
353	#B00CK8	10/19/90	W.H.	6/19/90	Special	Solid	8.5052 g	
354	#B00CK9	10/19/90	W.H.	6/19/90	Special	Solid	5.5570 g	
355	#B00CK6	10/19/90	W.H.	6/19/90	Special	Solid	4.7435 g	
356	#B00CL3	10/19/90	W.H.	6/19/90	Special	Solid	5.5159 g	
357	#B00CK3	10/19/90	W.H.	6/19/90	Special	Solid	5.4492 g	
358	#B00CL6	10/19/90	W.H.	6/19/90	Special	Solid	4.4624 g	
359	#B00CK4	10/19/90	W.H.	6/19/90	Special	Solid	5.4045 g	
360	U# B00CLA	10/19/90	W.H.	6/19/90	Special	Solid	5.0028 g	
361	Duplicate U# B00CL5 B00CK2	10/19/90	W.H.	6/19/90	Special	Solid	4.2236 g <del>5.0028 g</del>	Changed duplicate prior to issue. ok
362	#B00CK5	10/19/90	W.H.	6/19/90	Special	Solid	4.4290 g	
363	#B00CL5	10/19/90	W.H.	6/19/90	Special	Solid	5.7882 g	
364	#B00CK4	11/19/90	W.H.	4/20/90	Special	Solid	10.3145 g	

Empowered  
Signed  
Contract