



Timothy Gunter
12/09/2000 03:52 PM

To: Lorelee Clause/YD/RWDOE@CRWMS
cc: Frank Wong/YD/RWDOE@CRWMS

Subject: J13/EJ13 Analyses Table from ANL

QA:N/A Exclusionary

Loralee,

Please print out 3 copies of the attachment, stamp draft and add disclaimers and give to NRC office.
(This may be a duplicate message)

Thanks.

----- Forwarded by Timothy Gunter/YD/RWDOE on 12/06/2000 08:39 PM -----



● Frank Wong 12/05/2000 11:04 AM

To: Timothy Gunter/YD/RWDOE@CRWMS, Paige Russell/YD/RWDOE@CRWMS, David Haught/YD/RWDOE@CRWMS

cc:

Subject: J13/EJ13 Analyses Table from ANL

QA:N/A Exclusionary

Dear Tim,

Below please find attached the J13/EJ13 Compositional Analyses table from ANL, which we requested. Please forward this information to the interested parties at the NRC (T. Ahn, B. Leslie, C. Greene, et al).

Best Regards,
Frank

----- Forwarded by Frank Wong/YD/RWDOE on 12/05/2000 11:02 AM -----



"Wolf, Stephen F." <wolf@cmt.anl.gov> on 12/04/2000 06:05:03 AM



To: Frank Wong/YD/RWDOE
cc:

Subject RE: J13/EJ13 Analyses Table

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<<EJ13 Summary>>

Stephen F. Wolf, Ph.D.
Chemist
Chemical Technology Division
Argonne National Laboratory

email: wolf@cmt.anl.gov
phone: 630.252.6497
fax: 630.972.4438

> -----

> From: Frank_Wong@notes.ymp.gov
> Sent: Friday, December 1, 2000 9:21 PM
> To: Wolf, Stephen F.
> Cc: Cunnane, James C.
> Subject: J13/EJ13 Analyses Table

>

>

>

> Dear Steve,

>

> Thank you very much for your letter and table of J13/EJ13 analyses
> showing
> the concentrations
> of 28 elements. These data are very helpful in the on-going DOE/NRC
> discussions on
> near field, waste package, and waste form environments. This topic also
> was
> raised at
> the Advisory Committee on Nuclear Waste (ACNW) meeting in San Antonio
> earlier
> this week (Bret Leslie mentioned it).

>

> If possible, would you please email as an attachment Table 1, which
> was
> included
> in your letter, as this email attachments are more easily distributed to
> the
> interested parties.
> Thank you again for your help.

>

> Best Regards,

> Frank

>

>



- EJ13 Summary.DOC

DRAFT DISCLAIMER

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Table 1. Concentrations of 28 elements in J13 well water and EJ13 simulated groundwater. Concentration are given in units of ng/mL solution.

Element	J13 5/23/89	EJ13 7/8/98	EJ13 1/18/99	EJ13 4/17/98
Li	47.1	44.6	42.6	47.6
B	94.9	139	131	124
Na	44100	47500	40300	42100
Mg	1660	63	231	198
Al	4.17	664	531	673
Si	28700	42000	32900	32800
K	6590	7950	8650	9400
Ca	14000	7230	3380	8280
V	6.43	7.33	7.75	8.04
Cr	0.739	0.811	0.422	0.787
Mn	<0.59	0.717	6.6	1.14
Fe	<5.97	<5.97	<5.97	<5.97
Co	<0.06	<0.06	<0.06	<0.06
Ni	<2.35	<2.35	<2.35	<2.35
Cu	6.1	<2.17	<2.17	<2.17
Zn	19.3	7.66	19.1	7.76
Ga	<0.05	1.08	1.29	1.46
As	12.6	12.6	14.3	15.8
Se	<39.7	<39.7	<39.7	<39.7
Rb	10.3	19.6	18.7	24.5
Sr	39.7	27.2	17.2	43.3
Ag	<0.09	<0.09	<0.09	<0.09
Cd	<0.89	<0.89	<0.89	<0.89
Cs	1.77	1.58	0.945	1.56
Ba	1.26	0.439	0.408	1.12
Tl	<0.03	0.053	0.043	0.08
Pb	6.08	0.496	0.286	0.586
U	0.701	0.835	<0.03	0.969

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