

J Noggle (PI)

From: "Adler, Joseph J." <jadler@entergy.com>
To: <jdn@nrc.gov>
Date: 06/01/2006 11:05:31 AM
Subject: FW: Teledyne Sample L28182

Jim,

Attached are the sample results I previously faxed to you.

Jay

From: Donahue, Patrick J
Sent: Thursday, June 01, 2006 10:36 AM
To: Adler, Joseph J.
Subject: Teledyne Sample L28182

Jay,
Attached is the sample results you requested.
I'll go through the rest of the samples and let you know about any other U results.

<<Entergy L28182 Revised 05-24-06.pdf>>

Patrick Donahue
Sr. HP/Chemistry Specialist
Entergy Nuclear Northeast
Indian Point Energy Center
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Buchanan, NY 10511

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CC: "Jones, T. R." <tjones2@entergy.com>

G-5



Floyd Hood, Chem
Entergy Nuclear Northeast
Indian Point Energy Center
295 Broadway - Suite 3, P.O. Box 308
Buchanan NY 10511-0308

REVISED
5-24-06

Report of Analysis/Certificate of Conformance

05/23/2006

LIMS #: L28182

Project ID#: EN002-3P50IP3-04

Received: 03/31/2006

Delivery Date: 04/14/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.


Keith Jeter

Operations Manager

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-042	L28182-1	MW-50 42FT
IP3-06-043	L28182-2	MW-50 67FT
IP3-06-044	L28182-3	MW-49 42FT
IP3-06-045	L28182-4	MW-49 25FT
IP3-06-046	L28182-5	MW-49 65FT

Report of Analysis

05/23/06 10:18



L28182

Entergy Nuclear Northeast

EN002-3P501P3-04

Floyd Hood, Chem

REVISED
D-24-06

Sample ID: IP3-06-042	Collect Start: 03/22/2006 14:25	Matrix: Ground Water (WG)
Station: MW-50 42FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-1		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Alliquot Volume	Alliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	9.75E+03	3.85E+02	2.14E+02	pCi/L		10	ml		04/11/06	60	M	+
NI-63	2013	4.01E+00	8.96E+00	1.46E+01	pCi/L		100	ml		05/18/06	100	M	U
SR-90	2019	1.93E+01	7.48E-01	4.76E-01	pCi/L		450	ml	03/22/06 14:25	04/11/06	800	M	+
BE-7	2007	3.46E+01	6.75E+01	1.18E+02	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
K-40	2007	4.04E+01	1.22E+02	1.03E+02	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CR-51	2007	6.54E+01	8.29E+01	1.47E+02	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
MN-54	2007	2.32E+00	6.48E+00	1.17E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CO-57	2007	-6.34E+00	5.56E+00	8.89E+00	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CO-58	2007	-7.01E+00	7.33E+00	1.17E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
FE-59	2007	-3.08E+00	1.41E+01	2.43E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CO-60	2007	-5.74E-01	5.70E+00	1.02E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
ZN-65	2007	3.13E+01	1.49E+01	2.99E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U*
NB-94	2007	-3.42E+00	6.45E+00	1.08E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
NB-95	2007	5.13E+00	7.72E+00	1.39E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
ZR-95	2007	7.36E+00	1.34E+01	2.41E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
MO-99	2007	-3.22E+03	6.89E+03	1.15E+04	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
RU-103	2007	7.44E+00	8.95E+00	1.59E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
RU-106	2007	-4.30E+01	5.67E+01	9.40E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
AG-110M	2007	2.14E+00	6.26E+00	1.11E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
SB-124	2007	-3.99E+00	9.20E+00	1.30E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
SB-125	2007	8.01E+00	1.75E+01	3.06E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
I-131	2007	-1.50E+01	3.38E+01	5.69E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CS-134	2007	1.49E+01	8.41E+00	1.39E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U*
CS-137	2007	-1.36E+00	6.60E+00	1.13E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
BA-140	2007	2.42E+01	6.39E+01	1.14E+02	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
LA-140	2007	-3.51E-01	1.84E+01	3.31E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CE-141	2007	-2.52E+00	1.41E+01	2.40E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U
CE-144	2007	-2.55E+01	4.48E+01	7.27E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

L28182 2 of 11 Revised 05-24-06

Report of Analysis

05/23/06 10:18



REVISED
5-24-06

L28182

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-042	Collect Start: 03/22/2006 14:25	Matrix: Ground Water (WG)
Station: MW-50 42FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-1		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
EU-154	2007	-1.12E+01	1.11E+01	1.79E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U No
RA-226	2007	1.26E+01	1.38E+02	2.31E+02	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U Yes
TH-228	2007	2.25E+01	1.53E+01	1.84E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U Yes
TH-232	2007	-1.34E+01	2.19E+01	3.76E+01	pCi/L		938.5	ml	03/22/06 14:25	04/11/06	11540	Sec	U No
AM-241 (AS)	2001	1.37E-01	1.36E-01	1.87E-01	pCi/L		200	ml		04/07/06	60008	sec	U
CM-242 (AS)	2001	1.17E-01	9.41E-02	4.78E-02	pCi/L		200	ml		04/07/06	60008	sec	U
CM-243/244 (AS)	2001	9.76E-02	9.55E-02	9.55E-02	pCi/L		200	ml		04/07/06	60008	sec	U
NP-237 (AS)	2001	-4.29E-02	5.01E-02	1.96E-01	pCi/L		200	ml		04/10/06	60000	sec	U
PU-238 (AS)	2001	2.47E-02	8.01E-02	1.04E-01	pCi/L		200	ml		04/10/06	60000	sec	U
PU-239/240 (AS)	2001	-1.57E-03	8.82E-02	1.80E-01	pCi/L		200	ml		04/10/06	60000	sec	U
PU-241	2001	1.96E+01	1.54E+01	2.42E+01	pCi/L		200	ml		04/12/06	100	M	U
PU-242 (AS)	2001	-3.93E-02	4.60E-02	1.80E-01	pCi/L		200	ml		04/10/06	60000	sec	U
U-233/234 (AS)	2001	8.33E-01	2.21E-01	8.77E-02	pCi/L		200	ml		04/06/06	60004	sec	+ U
U-235 (AS)	2001	1.05E-02	3.41E-02	4.43E-02	pCi/L		200	ml		04/06/06	60004	sec	U
U-238 (AS)	2001	7.51E-01	2.08E-01	7.16E-02	pCi/L		200	ml		04/06/06	60004	sec	+ U

Comment: 1 Ni-63 added per client request May 10

Flag Values

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- High = Activity concentration exceeds customer reporting value
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- H = High recovery

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MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

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Report of Analysis

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REVISED
 5-24-06

L28182

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-043	Collect Start: 03/22/2006 14:50	Matrix: Ground Water (WG)
Station: MW-50 67FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-2		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	6.81E+03	3.29E+02	2.13E+02	pCi/L		10	ml		04/11/06	60	M	+
NI-63	2013	5.33E+00	9.01E+00	1.47E+01	pCi/L		100	ml		05/19/06	100	M	U
SR-90	2019	2.55E+01	8.09E-01	4.90E-01	pCi/L		450	ml	03/22/06 14:50	04/11/06	800	M	+
BE-7	2007	3.08E+01	9.61E+01	1.60E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
K-40	2007	5.14E+01	1.43E+02	1.70E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CR-51	2007	-1.36E+02	1.13E+02	1.71E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
MN-54	2007	9.04E+00	6.94E+00	1.61E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CO-57	2007	-5.91E-02	7.24E+00	1.21E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CO-58	2007	-7.30E+00	1.12E+01	1.73E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
FE-59	2007	-9.13E+00	2.24E+01	3.51E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CO-60	2007	-2.18E+00	1.12E+01	1.81E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
ZN-65	2007	7.99E+01	3.00E+01	5.47E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U*
NB-94	2007	-1.51E+01	1.04E+01	1.49E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
NB-95	2007	3.81E+00	5.87E+00	1.81E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
ZR-95	2007	-1.55E+01	2.14E+01	2.96E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
MO-99	2007	1.18E+03	2.58E+03	4.45E+03	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
RU-103	2007	3.26E+00	1.26E+01	2.09E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
RU-106	2007	-1.99E+00	9.48E+01	1.53E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
AG-110M	2007	-3.30E-01	1.02E+01	1.66E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
SB-124	2007	-1.12E+01	1.49E+01	1.92E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
SB-125	2007	1.15E+01	2.80E+01	4.72E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
I-131	2007	2.10E+01	3.09E+01	5.34E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CS-134	2007	4.82E+01	1.54E+01	2.63E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U*
CS-137	2007	-7.67E+00	1.07E+01	1.67E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
BA-140	2007	-1.13E+00	7.15E+01	1.19E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
LA-140	2007	-6.34E+00	2.52E+01	4.03E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CE-141	2007	-1.29E+01	1.86E+01	2.98E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U
CE-144	2007	-4.98E+01	6.18E+01	9.91E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
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MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

L28182-4 of 11 Revised 05-24-06

Report of Analysis

05/23/06 10:18



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company

REVISED
5-24-06

L28182

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-043	Collect Start: 03/22/2006 14:50	Matrix: Ground Water (WG)
Station: MW-50 67FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-2		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
EU-154	2007	-3.97E+00	1.52E+01	2.51E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U No
RA-226	2007	-1.90E+02	2.25E+02	3.75E+02	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U No
TH-228	2007	9.98E-03	1.57E+01	2.99E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U Yes
TH-232	2007	-9.73E-01	3.81E+01	6.55E+01	pCi/L		989.07	ml	03/22/06 14:50	04/05/06	6000	Sec	U No
AM-241 (AS)	2001	-6.47E-02	4.93E-02	1.93E-01	pCi/L		200	ml		04/07/06	60000	sec	U
CM-242 (AS)	2001	1.05E-01	1.24E-01	1.25E-01	pCi/L		200	ml		04/07/06	60000	sec	U
CM-243/244 (AS)	2001	4.24E-02	9.84E-02	1.45E-01	pCi/L		200	ml		04/07/06	60000	sec	U
NP-237 (AS)	2001	7.04E-02	1.33E-01	1.99E-01	pCi/L		200	ml		04/07/06	60001	sec	U
PU-238 (AS)	2001	5.61E-03	1.01E-01	1.96E-01	pCi/L		200	ml		04/07/06	60001	sec	U
PU-239/240 (AS)	2001	2.42E-02	7.77E-02	1.20E-01	pCi/L		200	ml		04/07/06	60001	sec	U
PU-241	2001	1.20E+01	1.02E+01	1.61E+01	pCi/L		200	ml		04/12/06	100	M	U
PU-242 (AS)	2001	-2.63E-02	3.06E-02	1.20E-01	pCi/L		200	ml		04/07/06	60001	sec	U
U-233/234 (AS)	2001	6.66E-01	1.96E-01	9.90E-02	pCi/L		200	ml		04/06/06	60002	sec	+
U-235 (AS)	2001	-5.47E-03	1.10E-02	4.33E-02	pCi/L		200	ml		04/06/06	60002	sec	U
U-238 (AS)	2001	4.07E-01	1.53E-01	8.58E-02	pCi/L		200	ml		04/06/06	60002	sec	+

Comment: 1 Ni-63 added per client request May 10

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
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- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
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Bolded text indicates reportable value.

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- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

05/23/06 10:18

REVISED
 5-24-06

L28182

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-044	Collect Start: 03/22/2006 16:45	Matrix: Ground Water (WG)
Station: MW-49 42FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-3		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	1.13E+04	1.70E+03	1.83E+03	pCi/L		2	ml		04/11/06	20	M	+
SR-90	2019	1.94E+01	6.93E-01	4.30E-01	pCi/L		450	ml	03/22/06 16:45	04/11/06	800	M	+
BE-7	2007	-3.02E+01	7.23E+01	1.18E+02	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
K-40	2007	1.81E+01	1.18E+02	9.19E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U Yes
CR-51	2007	3.85E+01	8.22E+01	1.38E+02	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
MN-54	2007	4.60E+00	7.28E+00	1.24E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CO-57	2007	-5.72E+00	6.12E+00	9.89E+00	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CO-58	2007	-1.61E+00	8.28E+00	1.35E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
FE-59	2007	5.24E+00	1.64E+01	2.78E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CO-60	2007	-4.57E+00	7.42E+00	1.15E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
ZN-65	2007	2.58E+01	1.73E+01	3.12E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
NB-94	2007	-2.62E+00	7.64E+00	1.22E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
NB-95	2007	6.53E+00	8.16E+00	1.41E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
ZR-95	2007	-1.10E+01	1.45E+01	2.31E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
MO-99	2007	-2.64E+02	1.83E+03	3.01E+03	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
RU-103	2007	-4.81E+00	9.16E+00	1.48E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
RU-106	2007	6.46E+01	7.03E+01	1.11E+02	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
AG-110M	2007	5.97E+00	7.55E+00	1.28E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
SB-124	2007	-1.26E+01	1.07E+01	1.35E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
SB-125	2007	1.27E+01	2.05E+01	3.42E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
I-131	2007	5.94E-01	2.37E+01	3.89E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CS-134	2007	3.72E+00	9.78E+00	1.38E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CS-137	2007	3.30E+00	7.93E+00	1.32E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
BA-140	2007	2.28E+01	5.14E+01	8.65E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
LA-140	2007	-9.77E+00	1.73E+01	2.69E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CE-141	2007	-1.34E+01	1.39E+01	2.24E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
CE-144	2007	-2.71E+01	4.84E+01	7.89E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
EU-154	2007	-6.24E+00	1.25E+01	2.05E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

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Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-044	Collect Start: 03/22/2006 16:45	Matrix: Ground Water (WG)
Station: MW-49 42FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-3		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	7.43E+00	1.54E+02	2.52E+02	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U Yes
TH-228	2007	-1.79E+00	1.61E+01	2.23E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
TH-232	2007	-1.50E+01	2.70E+01	4.26E+01	pCi/L		955.42	ml	03/22/06 16:45	04/05/06	14600	Sec	U No
AM-241 (AS)	2001	1.42E-03	8.32E-02	1.66E-01	pCi/L		200	ml		04/07/06	60007	sec	U
CM-242 (AS)	2001	1.16E-01	9.00E-02	6.90E-02	pCi/L		200	ml		04/07/06	60007	sec	U
CM-243/244 (AS)	2001	1.90E-02	4.35E-02	5.64E-02	pCi/L		200	ml		04/07/06	60007	sec	U
NP-237 (AS)	2001	1.96E-02	6.38E-02	8.27E-02	pCi/L		200	ml		04/07/06	60001	sec	U
PU-238 (AS)	2001	-2.03E-02	6.99E-02	1.69E-01	pCi/L		200	ml		04/07/06	60001	sec	U
PU-239/240 (AS)	2001	1.09E-01	1.29E-01	1.31E-01	pCi/L		200	ml		04/07/06	60001	sec	U
PU-241	2001	1.09E+01	9.66E+00	1.53E+01	pCi/L		200	ml		04/12/06	100	M	U
PU-242 (AS)	2001	4.56E-02	8.07E-02	7.58E-02	pCi/L		200	ml		04/07/06	60001	sec	U
U-233/234 (AS)	2001	2.06E+00	3.51E-01	7.59E-02	pCi/L		200	ml		04/06/06	60003	sec	+
U-235 (AS)	2001	4.06E-02	5.41E-02	4.20E-02	pCi/L		200	ml		04/06/06	60003	sec	U
U-238 (AS)	2001	1.03E+00	2.41E-01	1.02E-01	pCi/L		200	ml		04/06/06	60003	sec	+

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Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-045	Collect Start: 03/22/2006 16:50	Matrix: Ground Water (WG)
Station: MW-49 25FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-4		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	1.54E+04	1.87E+03	1.82E+03	pCi/L		2	ml		04/11/06	20	M	+
SR-90	2019	1.84E+01	6.64E-01	4.29E-01	pCi/L		450	ml	03/22/06 16:50	04/11/06	800	M	+
BE-7	2007	-3.66E+01	5.44E+01	8.56E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
K-40	2007	6.88E+01	9.09E+01	1.71E+02	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CR-51	2007	1.22E+01	6.37E+01	1.06E+02	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
MN-54	2007	-2.61E+00	5.87E+00	9.50E+00	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CO-57	2007	5.13E+00	4.64E+00	7.91E+00	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CO-58	2007	3.03E-01	6.45E+00	1.07E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
FE-59	2007	1.65E+00	1.37E+01	2.25E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CO-60	2007	-1.35E+00	5.99E+00	9.69E+00	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
ZN-65	2007	1.60E+01	1.37E+01	2.38E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
NB-94	2007	-1.28E+00	5.78E+00	9.34E+00	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
NB-95	2007	3.11E+00	6.42E+00	1.07E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
ZR-95	2007	-9.16E+00	1.18E+01	1.84E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
MO-99	2007	1.22E+02	1.54E+03	2.51E+03	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
RU-103	2007	5.92E-01	7.09E+00	1.18E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
RU-106	2007	-2.53E+01	5.56E+01	8.96E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
AG-110M	2007	2.92E+00	5.83E+00	9.78E+00	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
SB-124	2007	-7.37E+00	8.25E+00	1.09E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
SB-125	2007	2.14E+01	1.65E+01	2.81E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
I-131	2007	-2.20E+00	1.84E+01	3.01E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CS-134	2007	1.19E+01	7.47E+00	1.13E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U*
CS-137	2007	-5.28E-01	6.27E+00	1.02E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
BA-140	2007	-1.24E+01	4.22E+01	6.90E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
LA-140	2007	-4.22E+00	1.30E+01	2.09E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CE-141	2007	-5.10E+00	1.08E+01	1.76E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
CE-144	2007	-1.36E+01	3.55E+01	5.83E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U
EU-154	2007	6.08E+00	9.83E+00	1.62E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec	U

- Flag Values
- U = Compound/Analyte not detected or less than 3 sigma
 - +
 - U* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
 - U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
 - High = Activity concentration exceeds customer reporting value
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 - L = Low recovery
 - H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

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Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-045	Collect Start: 03/22/2006 16:50	Matrix: Ground Water (WG)
Station: MW-49 25FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-4		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	5.00E+01	1.31E+02	2.13E+02	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec U	No
TH-228	2007	7.98E+00	1.02E+01	1.65E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec U	No
TH-232	2007	5.92E+00	2.37E+01	3.84E+01	pCi/L		928.22	ml	03/22/06 16:50	04/05/06	27432	Sec U	No
AM-241 (AS)	2001	4.00E-02	1.05E-01	1.86E-01	pCi/L		200	ml		04/07/06	60005	sec U	
CM-242 (AS)	2001	8.72E-02	8.73E-02	9.83E-02	pCi/L		200	ml		04/07/06	60005	sec U	
CM-243/244 (AS)	2001	8.32E-03	5.73E-02	1.06E-01	pCi/L		200	ml		04/07/06	60005	sec U	
NP-237 (AS)	2001	-1.43E-02	2.03E-02	7.99E-02	pCi/L		200	ml		04/07/06	60007	sec U	
PU-238 (AS)	2001	7.15E-02	1.24E-01	2.00E-01	pCi/L		200	ml		04/07/06	60007	sec U	
PU-239/240 (AS)	2001	1.43E-01	1.26E-01	1.37E-01	pCi/L		200	ml		04/07/06	60007	sec U	
PU-241	2001	2.24E+00	5.81E+00	9.44E+00	pCi/L		200	ml		04/12/06	100	M U	
PU-242 (AS)	2001	7.54E-02	7.61E-02	2.78E-02	pCi/L		200	ml		04/07/06	60007	sec U	
U-233/234 (AS)	2001	1.08E+00	2.48E-01	4.96E-02	pCi/L		200	ml		04/06/06	60004	sec +	
U-235 (AS)	2001	1.51E-02	4.85E-02	7.51E-02	pCi/L		200	ml		04/06/06	60004	sec U	
U-238 (AS)	2001	6.20E-01	1.91E-01	1.11E-01	pCi/L		200	ml		04/06/06	60004	sec +	

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 - L = Low recovery
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Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-046	Collect Start: 03/22/2006 16:55	Matrix: Ground Water (WG)
Station: MW-49 65FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-5		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
H-3	2010	5.43E+03	1.42E+03	1.82E+03	pCi/L		2	ml		04/11/06	20	M	+
SR-90	2019	1.85E+01	6.71E-01	4.13E-01	pCi/L		450	ml	03/22/06 16:55	04/11/06	800	M	+
BE-7	2007	5.99E+01	8.72E+01	1.59E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
K-40	2007	5.30E+00	1.34E+02	1.34E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U Yes
CR-51	2007	-1.28E+02	1.01E+02	1.64E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
MN-54	2007	9.81E-01	8.53E+00	1.57E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CO-57	2007	-1.09E+00	8.04E+00	1.34E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CO-58	2007	-3.42E+00	1.04E+01	1.77E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
FE-59	2007	-5.38E+00	1.92E+01	3.35E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CO-60	2007	5.51E+00	9.12E+00	1.81E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
ZN-65	2007	2.53E+01	2.58E+01	4.41E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
NB-94	2007	-1.10E+00	8.31E+00	1.46E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
NB-95	2007	-7.54E-01	1.04E+01	1.82E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
ZR-95	2007	1.65E+01	1.70E+01	3.31E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
MO-99	2007	8.87E+02	2.05E+03	3.82E+03	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
RU-103	2007	3.17E+00	1.19E+01	2.09E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
RU-106	2007	6.98E+00	9.24E+01	1.60E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
AG-110M	2007	4.94E+00	8.58E+00	1.61E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
SB-124	2007	-2.46E+01	1.56E+01	1.93E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
SB-125	2007	-3.75E+00	2.48E+01	4.27E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
I-131	2007	-4.97E+00	2.94E+01	5.08E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CS-134	2007	4.61E+00	1.42E+01	2.15E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CS-137	2007	1.36E+00	9.55E+00	1.72E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
BA-140	2007	-2.44E+01	6.33E+01	1.10E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
LA-140	2007	-1.33E+01	1.99E+01	3.29E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CE-141	2007	6.08E+00	1.73E+01	3.03E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
CE-144	2007	-4.71E+01	6.14E+01	9.91E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No
EU-154	2007	8.32E+00	1.62E+01	2.77E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec	U No

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 - High = Activity concentration exceeds customer reporting value
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 - L = Low recovery
 - H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted
- MDC - Minimum Detectable Concentration

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Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-046	Collect Start: 03/22/2006 16:55	Matrix: Ground Water (WG)
Station: MW-49 65FT	Collect Stop:	Volume:
Description:	Receive Date: 03/31/2006	% Moisture:
LIMS Number: L28182-5		

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	3.05E+01	2.08E+02	3.74E+02	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec U	No
TH-228	2007	2.40E+00	1.54E+01	2.57E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec U	Yes
TH-232	2007	-2.56E+01	3.36E+01	5.80E+01	pCi/L		910.58	ml	03/22/06 16:55	04/05/06	6000	Sec U	No
AM-241 (AS)	2001	6.22E-02	7.69E-02	1.09E-01	pCi/L		200	ml		04/07/06	59648	sec U	
CM-242 (AS)	2001	1.98E-02	3.48E-02	3.24E-02	pCi/L		200	ml		04/07/06	59648	sec U	
CM-243/244 (AS)	2001	8.29E-02	6.29E-02	1.75E-02	pCi/L		200	ml		04/07/06	59648	sec U	
NP-237 (AS)	2001	7.77E-02	1.27E-01	1.64E-01	pCi/L		200	ml		04/07/06	60001	sec U	
PU-238 (AS)	2001	-2.84E-02	3.31E-02	1.30E-01	pCi/L		200	ml		04/07/06	60001	sec U	
PU-239/240 (AS)	2001	1.26E-01	1.40E-01	1.50E-01	pCi/L		200	ml		04/07/06	60001	sec U	
PU-241	2001	2.43E+00	9.83E+00	1.61E+01	pCi/L		200	ml		04/13/06	100	M U	
PU-242 (AS)	2001	-1.90E-02	2.70E-02	1.06E-01	pCi/L		200	ml		04/07/06	60001	sec U	
U-233/234 (AS)	2001	2.21E+00	3.57E-01	8.55E-02	pCi/L		200	ml		04/06/06	60002	sec +	
U-235 (AS)	2001	5.31E-02	5.91E-02	3.99E-02	pCi/L		200	ml		04/06/06	60002	sec U	
U-238 (AS)	2001	9.43E-01	2.25E-01	9.14E-02	pCi/L		200	ml		04/06/06	60002	sec +	

Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- **** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

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