0059315

SAF-B01-003
100-N Area Near Field Monitoring - River Bank Springs Sample Analysis
45 DAY PACKAGE

FAX RESULTS TO:

COMPLETE COPY OF DATA PACKAGE TO:

Joan Kessner	H0-25	BJ 3/6/03 INITIAL/DATE
DIS		N/A INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE FAX COVER SHEET)

SDG WSCF0391 SAF-B01-003

X Rad only Chem only Rad & Chem

X Complete Partial

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WSCF
ANALYTICAL RESULTS REPORT

for

Effluent and Environmental Monitoring (EEM)
Post Office Box 1970 T6-36
Richland, WA 99352

Attention: Larry Diediker

Analytical: _____

Client Services: _____

Report#: 20021421
Report Date: 20-feb-2003
Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

B01-003
WSCF0734

AIR QUALITY DOCUMENT

RECEIVED FEB 2003

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000838	S441704 Y301	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		400	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	-8.66	pCi/L		60	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		400	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	-17.3	pCi/L		1.2e+02	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		94.8	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	6.13	pCi/L		11	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		469	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	1.45	pCi/L		12	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		481	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-1.26	pCi/L		10	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		224	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	7.71	pCi/L		29	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	1.21	pCi/L		31	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		222	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	-8.96	pCi/L		32	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		158	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	3.68	pCi/L		10	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	0.334	pCi/L		9.7	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		257	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	21.4	pCi/L		96	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	0.939	pCi/L		27	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		291	%		0.0	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	2.41	pCi/L		12	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		101	%		0.0	10/16/02	10/15/02	10/16/02

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
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AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000838	S441704 Y301	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	13.6	pCi/L		22	10/16/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000838	S441704 Y301	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		5.20	pCi/L		1.0	11/12/02	10/15/02	10/16/02
W020000838	S441704 Y301	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		160	%		0.0	10/21/02	10/15/02	10/16/02
W020000838	S441704 Y301	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-300	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	-2.79	pCi/L		51	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	-5.59	pCi/L		1.0e+02	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		519	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	0.966	pCi/L		9.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		195	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	4.41	pCi/L		9.9	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		141	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-3.81	pCi/L		8.9	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	0.272	pCi/L		26	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		182	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-8.24	pCi/L		25	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		266	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	6.33	pCi/L		28	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	-0.289	pCi/L		8.7	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		358	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-1.43	pCi/L		8.5	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		596	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	7.93	pCi/L		83	10/16/02	10/15/02	10/16/02

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker **Group #:** 20021421
Project: NFM: Near Field Monitoring

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000839	S441705 Y302	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		759	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	-1.78	pCi/L		23	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		124	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	5.06	pCi/L		11	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	-0.0608	pCi/L		19	10/16/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000839	S441705 Y302	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		22.0	pCi/L		1.0	11/12/02	10/15/02	10/16/02
W020000839	S441705 Y302	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		160	%		0.0	10/21/02	10/15/02	10/16/02
W020000839	S441705 Y302	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-320	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		869	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	-3.63	pCi/L		52	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		869	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	-7.27	pCi/L		1.0e+02	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	-0.163	pCi/L		7.5	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		748	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	0.682	pCi/L		7.9	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		100	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-5.56	pCi/L		7.6	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		100	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-19.3	pCi/L		23	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		338	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-3.40	pCi/L		19	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	0.663	pCi/L		25	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		265	%		0.0	10/17/02	10/15/02	10/16/02

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WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
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Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000840	S441706 Y303	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	-1.61	pCi/L		7.3	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		307	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-1.69	pCi/L		7.4	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		232	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	17.0	pCi/L		71	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		421	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	3.17	pCi/L		23	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	0.325	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		455	%		0.0	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	-2.20	pCi/L		15	10/17/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000840	S441706 Y303	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		82.0	pCi/L		0.90	11/12/02	10/15/02	10/16/02
W020000840	S441706 Y303	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		170	%		0.0	10/21/02	10/15/02	10/16/02
W020000840	S441706 Y303	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-470	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		293	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	11.8	pCi/L		58	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		293	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	23.6	pCi/L		1.2e+02	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		226	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	-1.88	pCi/L		7.4	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		922	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	-0.512	pCi/L		8.2	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		246	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-2.08	pCi/L		7.8	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		577	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	2.57	pCi/L		26	10/17/02	10/15/02	10/16/02

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RQ=Result Qualifier

DF=Dilution Factor

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AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000841	S441708 Y305	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		414	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-3.30	pCi/L		20	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	1.14	pCi/L		27	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		108	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	4.16	pCi/L		8.2	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-0.250	pCi/L		8.2	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		250	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	16.1	pCi/L		72	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		103	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	-13.4	pCi/L		22	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		126	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	-5.14	pCi/L		11	10/17/02	10/15/02	10/18/02
W020000841	S441708 Y305	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		97.9	%		0.0	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	10.5	pCi/L		17	10/17/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000841	S441708 Y305	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		5.20	pCi/L		0.90	11/12/02	10/15/02	10/16/02
W020000841	S441708 Y305	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		100	%		0.0	10/21/02	10/15/02	10/16/02
W020000841	S441708 Y305	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-490	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	2.78	pCi/L		62	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	5.57	pCi/L		1.2e+02	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	-0.440	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		319	%		0.0	10/17/02	10/15/02	10/16/02

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AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000842	S441709 Y306	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	-1.92	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		540	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-1.25	pCi/L		9.8	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		143	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-11.6	pCi/L		27	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		199	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	7.86	pCi/L		28	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		105	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	-17.8	pCi/L		31	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		120	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	4.57	pCi/L		9.6	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		344	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-1.60	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		327	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	-16.4	pCi/L		90	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		209	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	-6.99	pCi/L		25	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	-0.435	pCi/L		12	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		107	%		0.0	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	12.0	pCi/L		21	10/17/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		35.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000842	S441709 Y306	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		1.60	pCi/L		0.80	11/12/02	10/15/02	10/16/02
W020000842	S441709 Y306	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		100	%		0.0	10/21/02	10/15/02	10/16/02
W020000842	S441709 Y306	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-360	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		132	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	28.3	pCi/L		66	10/17/02	10/15/02	10/16/02

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DF=Dilution Factor

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AIR QUALITY DOCUMENT nc

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker **Group #:** 20021421
Project: NFM: Near Field Monitoring

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000843	S441710 Y307	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		132	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	56.5	pCi/L		1.3e+02	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		130	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	-4.51	pCi/L		9.7	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		173	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	-3.75	pCi/L		11	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		763	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	0.809	pCi/L		11	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		123	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	14.9	pCi/L		30	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		149	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	13.3	pCi/L		31	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		654	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	3.19	pCi/L		35	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		133	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	14881-63-1	Nb-94 by GEA	WATER	LA-508-481	U	4.28	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		187	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-3.21	pCi/L		9.8	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		176	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	32.0	pCi/L		99	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		207	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	7.89	pCi/L		28	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		559	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	13968-06-8	Sn-113 by GEA	WATER	LA-508-481	U	1.37	pCi/L		13	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		238	%		0.0	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	-6.28	pCi/L		21	10/17/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		85.0	%		0.0	11/12/02	10/15/02	10/16/02

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Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000843	S441710 Y307	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415	U	0.800	pCi/L		0.80	11/12/02	10/15/02	10/16/02
W020000843	S441710 Y307	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		100	%		0.0	10/21/02	10/15/02	10/16/02
W020000843	S441710 Y307	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-430	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		279	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	11.2	pCi/L		52	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		279	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	22.5	pCi/L		1.0e+02	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		233	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	2.41	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		663	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	0.870	pCi/L		9.9	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		516	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-1.08	pCi/L		9.6	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-0.694	pCi/L		28	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		105	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-15.2	pCi/L		26	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		310	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	5.39	pCi/L		28	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		422	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	1.28	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		191	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-2.82	pCi/L		8.8	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		178	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	13987-48-1	Ru-106 by GEA	WATER	LA-508-481	U	-28.1	pCi/L		84	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		227	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	6.53	pCi/L		26	10/17/02	10/15/02	10/16/02

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AIR QUALITY DOCUMENT

Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000844	S441711 Y308	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		774	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	0.846	pCi/L		11	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		91.4	%		0.0	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	13.9	pCi/L		20	10/17/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000844	S441711 Y308	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		6.90	pCi/L		1.0	11/12/02	10/15/02	10/16/02
W020000844	S441711 Y308	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		120	%		0.0	10/21/02	10/15/02	10/16/02
W020000844	S441711 Y308	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-320	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		375	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	10.3	pCi/L		64	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		375	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	20.6	pCi/L		1.3e+02	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		365	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	-1.53	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		208	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	3.10	pCi/L		9.9	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		219	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	2.69	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		349	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-5.98	pCi/L		30	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		110	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-15.0	pCi/L		26	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		80.6	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	27.0	pCi/L		37	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		388	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	-1.42	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		295	%		0.0	10/17/02	10/15/02	10/16/02

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AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000845	S441712 Y309	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	1.99	pCi/L		10	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	-4.80	pCi/L		89	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	0.407	pCi/L		27	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		393	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	-1.91	pCi/L		12	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		73.5	%		0.0	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	18.3	pCi/L		22	10/17/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		30.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000845	S441712 Y309	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		1.90	pCi/L		0.80	11/12/02	10/15/02	10/16/02
W020000845	S441712 Y309	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		110	%		0.0	10/21/02	10/15/02	10/16/02
W020000845	S441712 Y309	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-350	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		357	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	10.2	pCi/L		60	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		357	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	20.5	pCi/L		1.2e+02	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		229	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	2.57	pCi/L		9.4	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		490	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	1.04	pCi/L		9.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		100	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	-8.92	pCi/L		8.5	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		340	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-4.62	pCi/L		26	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		580	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-3.07	pCi/L		28	10/17/02	10/15/02	10/16/02

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AIR QUALITY DOCUMENT nc

Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker **Group #:** 20021421
Project: NFM: Near Field Monitoring

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000846	S441713 Y310	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		167	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	10.6	pCi/L		30	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		196	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	2.44	pCi/L		8.5	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		932	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-0.576	pCi/L		9.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		337	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	-12.4	pCi/L		73	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		170	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	8.98	pCi/L		26	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	-0.247	pCi/L		12	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		94.9	%		0.0	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	11.5	pCi/L		18	10/17/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		55.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000846	S441713 Y310	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		1.20	pCi/L		1.1	11/12/02	10/15/02	10/16/02
W020000846	S441713 Y310	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		100	%		0.0	10/21/02	10/15/02	10/16/02
W020000846	S441713 Y310	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-340	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		239	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	-13.2	pCi/L		51	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		239	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	-26.4	pCi/L		1.0e+02	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		974	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	0.422	pCi/L		7.5	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		481	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	0.913	pCi/L		7.8	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		212	%		0.0	10/18/02	10/15/02	10/16/02

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AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000847	S441714 Y311	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	2.33	pCi/L		7.9	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		437	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	-3.37	pCi/L		24	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		267	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-5.18	pCi/L		19	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		243	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	6.29	pCi/L		26	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		153	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	2.96	pCi/L		8.2	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		188	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-2.57	pCi/L		7.9	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	3.86	pCi/L		71	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	0.639	pCi/L		23	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		381	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	1.59	pCi/L		10	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		785	%		0.0	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	1.24	pCi/L		15	10/18/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		15.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000847	S441714 Y311	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		31.0	pCi/L		1.0	11/12/02	10/15/02	10/16/02
W020000847	S441714 Y311	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		140	%		0.0	10/21/02	10/15/02	10/16/02
W020000847	S441714 Y311	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-260	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Ce-144 Rel.% Count Error (GEA)	WATER	LA-508-481		258	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	14762-78-8	Ce-144 by GEA	WATER	LA-508-481	U	11.8	pCi/L		51	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	CePr-144 Rel.% Count Error	WATER	LA-508-481		258	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	CE/PR-144	CePr-144 by GEA	WATER	LA-508-481	U	23.6	pCi/L		1.0e+02	10/18/02	10/15/02	10/16/02

MDL = Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ = Result Qualifier

DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker **Group #:** 20021421
Project: NFM: Near Field Monitoring

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000848	S441715 Y312	E,T,C	Co-60 Rel.% Count Error (GEA)	WATER	LA-508-481		120	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	10198-40-0	Co-60 by GEA	WATER	LA-508-481	U	3.25	pCi/L		7.5	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Cs-134 Rel.% Count Error (GEA)	WATER	LA-508-481		287	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	13967-70-9	Cs-134 by GEA	WATER	LA-508-481	U	-1.61	pCi/L		7.4	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Cs-137 Rel.% Count Error (GEA)	WATER	LA-508-481		278	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	10045-97-3	Cs-137 by GEA	WATER	LA-508-481	U	1.67	pCi/L		7.4	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Eu-152 Rel.% Count Error (GEA)	WATER	LA-508-481		155	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	14683-23-9	Eu-152 by GEA	WATER	LA-508-481	U	9.23	pCi/L		25	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Eu-154 Rel.% Count Error (GEA)	WATER	LA-508-481		100	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	15585-10-1	Eu-154 by GEA	WATER	LA-508-481	U	-12.2	pCi/L		18	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Eu-155 Rel.% Count Error (GEA)	WATER	LA-508-481		315	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	14391-16-3	Eu-155 by GEA	WATER	LA-508-481	U	-4.75	pCi/L		25	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Nb-94 Rel.% Count Error (GEA)	WATER	LA-508-481		187	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	14681-63-1	Nb-94 by GEA	WATER	LA-508-481	U	-2.11	pCi/L		6.7	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Ru-103 Rel.% Count Error (GEA)	WATER	LA-508-481		105	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	13968-53-1	Ru-103 by GEA	WATER	LA-508-481	U	-4.31	pCi/L		7.1	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Ru-106 Rel.% Count Error (GEA)	WATER	LA-508-481		322	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	13967-48-1	Ru-106 by GEA	WATER	LA-508-481	U	-11.4	pCi/L		64	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Sb-125 Rel.% Count Error (GEA)	WATER	LA-508-481		188	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	14234-35-6	Sb-125 by GEA	WATER	LA-508-481	U	6.56	pCi/L		21	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Sn-113 Rel.% Count Error (GEA)	WATER	LA-508-481		349	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	13966-06-8	Sn-113 by GEA	WATER	LA-508-481	U	1.67	pCi/L		10	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Zn-65 Rel.% Count Error (GEA)	WATER	LA-508-481		1.00e+03	%		0.0	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	13982-39-3	Zn-65 by GEA	WATER	LA-508-481	U	-0.637	pCi/L		18	10/18/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	Sr-90 Rel.% Count Error	WATER	LA-508-415		20.0	%		0.0	11/12/02	10/15/02	10/16/02
W020000848	S441715 Y312	10098-97-2	Sr-90 by Beta Counting	WATER	LA-508-415		8.60	pCi/L		0.90	11/12/02	10/15/02	10/16/02
W020000848	S441715 Y312	E,T,C	H-3 Rel. % Count Error	WATER	LA-508-421		185	%		0.0	10/21/02	10/15/02	10/16/02

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Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

AIR QUALITY DOCUMENT

WSCF
ANALYTICAL RESULTS REPORT

Attention: Larry Diediker
Project: NFM: Near Field Monitoring

Group #: 20021421

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
W020000848	S441715 Y312	10028-17-8	H-3 by Liquid Scint.	WATER	LA-508-421	U	-230	pCi/L		2.8e+02	10/21/02	10/15/02	10/16/02

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Report W004/ver. 5.1
Effluent and Environmental Monitoring (EEM)

AIR QUALITY DOCUMENT

WSCF
ANALYTICAL COMMENT REPORT

Attention: Larry Diediker
Project Number NFM

Group #: 20021421

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Sample W020000841 for Gross A/B and H-3 had RPD failures. RPD is not applicable to low level samples with high counting error.

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample
VALTEST - Test Validation
LOGTEST - Login for Tests
TESTDATA - Test Data Entry

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention:
Project Number :

Group #: 20021421

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units

RQ=Result Qualifier

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WSCF
METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS	
	None	No reference to any industry method.
LA-508-421	LA-508-421: OPERATION OF THE TRI-CARB MODEL 2500TR LIQUID SCINTILLATION ANALYZER	
	None	No reference to any industry method.
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE	
	None	No reference to any industry method.

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at http://apweb02/asponlinedocs/wscf/sample%20mgmt/ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

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WSCF Sample Site Cross-Reference Report

Group#: 20021421

Date Printed: 20-feb-2003

B01-003
WSCF0734

Sample#	Site Name	Sample ID
W020000838	Y301	S441704 Y301
W020000839	Y302	S441705 Y302
W020000840	Y303	S441706 Y303
W020000841	Y305	S441708 Y305
W020000842	Y306	S441709 Y306
W020000843	Y307	S441710 Y307
W020000844	Y308	S441711 Y308
W020000845	Y309	S441712 Y309
W020000846	Y310	S441713 Y310
W020000847	Y311	S441714 Y311
W020000848	Y312	S441715 Y312

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