

This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-137

Section 2 of 4

Title: 90 DAY SAFETY SCREENING RESULTS + FINAL
REPORT FOR TANK 241-B-104 PUSH MODE
CORES 88 + 89

Date: 10/24/95 Revision: R001

Originator: JO J.

Co: WHC

Recipient: _____

Co: _____

References: ECN-623835

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WHC-SD-WM-DP-137, REV. 1

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LABCORE Data Entry Template for Worklist# 1567

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Field Blank Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.99</u>	<u>N/A</u>	
95000085	B-104	3	SAMPLE	S95T001083	0		DLIQVOL1	LIQUID	<u>N/A</u>	<u>260</u>		ml
95000085	B-104	4	SAMPLE	S95T001083	0		DLQWT01	LIQUID	<u>N/A</u>	<u>249</u>		g
95000085	B-104	5	SAMPLE	S95T001083	0		EST.G/ML	LIQUID	<u>N/A</u>	<u>1</u>		g/ml
95000085	B-104	6	SAMPLE	S95T001083	0		EXTRUD01	LIQUID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7	SAMPLE	S95T001083	0		LLQWT01	LIQUID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	8	SAMPLE	S95T001083	0		NOTEBOOK	LIQUID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9	SAMPLE	S95T001083	0		SLDVOL01	LIQUID	<u>N/A</u>	<u>0</u>		ml
95000085	B-104	10	SAMPLE	S95T001083	0		SLDWT-01	LIQUID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	11	SAMPLE	S95T001083	0		ORGVOL01	LIQUID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1567

EC 6-14-95
Analyst Signature Date

EC 6-14-95
Analyst Signature Date

Reviewed by ASH B. Gung 6-14-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1511

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Field Blank Riser 2 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.8</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001010	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>180</u>		mL
95000085	B-104	4 SAMPLE	S95T001010	0	DLIQWT01	SOLID	<u>N/A</u>	<u>168</u>		g
95000085	B-104	5 SAMPLE	S95T001010	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.1</u>		g/mL
95000085	B-104	6 SAMPLE	S95T001010	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7 SAMPLE	S95T001010	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	8 SAMPLE	S95T001010	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9 SAMPLE	S95T001010	0	SLDVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL
95000085	B-104	10 SAMPLE	S95T001010	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	11 SAMPLE	S95T001010	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1511

EC 6-7-95
Analyst Signature Date

EC 6-7-95
Analyst Signature Date

Reviewed by John B. Bury 06/08/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1508

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A9

Worklist Comment: B-104 C88 Segment 1 Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.97</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000085	B-104	3	SAMPLE	S95T001007	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>210</u>		mL
95000085	B-104	4	SAMPLE	S95T001007	0		DLIQWT01	SOLID	<u>N/A</u>	<u>272</u>		g
95000085	B-104	5	SAMPLE	S95T001007	0		EST.G/ML	SOLID	<u>N/A</u>	<u>1.3</u>		g/mL
95000085	B-104	6	SAMPLE	S95T001007	0		EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000085	B-104	7	SAMPLE	S95T001007	0		LLIQWT01	SOLID	<u>N/A</u>	<u>< 5 mls</u>		g
95000085	B-104	8	SAMPLE	S95T001007	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N/1151</u>		
95000085	B-104	9	SAMPLE	S95T001007	0		SLDVOL01	SOLID	<u>N/A</u>	<u>86</u>		mL
95000085	B-104	10	SAMPLE	S95T001007	0		SLDWT-01	SOLID	<u>N/A</u>	<u>86</u>		g
95000085	B-104	11	SAMPLE	S95T001007	0		ORGVOL01	SOLID	<u>N/A</u>	<u>Q</u>		mL

Final page for worklist # 1508

Alan B Campbell 6/8/95
Analyst Signature Date

EC 6-8-95
Analyst Signature Date

Reviewed by John B. Boney 6/8/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1509

Analyst: EL Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Segment 2 Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000085	B-104	3	SAMPLE	S95T001008	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>Q</u>		ml
95000085	B-104	4	SAMPLE	S95T001008	0		DLIQWT01	SOLID	<u>N/A</u>	<u>Q</u>		g
95000085	B-104	5	SAMPLE	S95T001008	0		EST.G/ML	SOLID	<u>N/A</u>	<u>Q</u>		g/ml
95000085	B-104	6	SAMPLE	S95T001008	0		EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000085	B-104	7	SAMPLE	S95T001008	0		LLIQWT01	SOLID	<u>N/A</u>	<u>Q</u>	<u>400 6/8/95</u>	g
95000085	B-104	8	SAMPLE	S95T001008	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9	SAMPLE	S95T001008	0		SLDVOL01	SOLID	<u>N/A</u>	<u>329</u>		ml
95000085	B-104	10	SAMPLE	S95T001008	0		SLDWT-01	SOLID	<u>N/A</u>	<u>329</u>		g
95000085	B-104	11	SAMPLE	S95T001008	0		ORGVOL01	SOLID	<u>N/A</u>	<u>Q</u>		ml

Final page for worklist # 1509

Alan B Campbell 6/8/95
Analyst Signature Date

EL 6-8-95
Analyst Signature Date

Reviewed by Alan B. Bury 6/8/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1510

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Segment 3 Riser 2 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001009	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>Ø</u>		ml
95000085	B-104	4 SAMPLE	S95T001009	0	DLIQWT01	SOLID	<u>N/A</u>	<u>Ø</u>		g
95000085	B-104	5 SAMPLE	S95T001009	0	EST.G/ML	SOLID	<u>N/A</u>	<u>Ø</u>		g/ml
95000085	B-104	6 SAMPLE	S95T001009	0	EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000085	B-104	7 SAMPLE	S95T001009	0	LLIQWT01	SOLID	<u>N/A</u>	<u>Ø</u> ^{400 6/5/95} <u><5</u>		g
95000085	B-104	8 SAMPLE	S95T001009	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9 SAMPLE	S95T001009	0	SLDVOL01	SOLID	<u>N/A</u>	<u>402</u>		ml
95000085	B-104	10 SAMPLE	S95T001009	0	SLDWT-01	SOLID	<u>N/A</u>	<u>402</u>		g
95000085	B-104	11 SAMPLE	S95T001009	0	ORGVOL01	SOLID	<u>N/A</u>	<u>Ø</u>		ml

Final page for worklist # 1510

Glan B Campbell
Analyst Signature Date

EC 6-8-95
Analyst Signature Date

Revised by ACP B. Zef 6/8/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1550

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Segment # 4 Riser 2 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.99</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001065	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000085	B-104	4 SAMPLE	S95T001065	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	5 SAMPLE	S95T001065	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000085	B-104	6 SAMPLE	S95T001065	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7 SAMPLE	S95T001065	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000085	B-104	8 SAMPLE	S95T001065	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9 SAMPLE	S95T001065	0	SLDVOL01	SOLID	<u>N/A</u>	<u>380</u>		ml
95000085	B-104	10 SAMPLE	S95T001065	0	SLDWT-01	SOLID	<u>N/A</u>	<u>380</u>		g
95000085	B-104	11 SAMPLE	S95T001065	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1550

EC 6-12-95
Analyst Signature Date

EC 6-12-95
Analyst Signature Date

reviewed by Atk B. Bury 6-14-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1551

Analyst: CC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-57

Worklist Comment: B-104 C88 Segment #5 Riser 2 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.99</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001066	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000085	B-104	4 SAMPLE	S95T001066	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	5 SAMPLE	S95T001066	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000085	B-104	6 SAMPLE	S95T001066	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7 SAMPLE	S95T001066	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000085	B-104	8 SAMPLE	S95T001066	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9 SAMPLE	S95T001066	0	SLDVOL01	SOLID	<u>N/A</u>	<u>371</u>		ml
95000085	B-104	10 SAMPLE	S95T001066	0	SLDWT-01	SOLID	<u>N/A</u>	<u>371</u>		g
95000085	B-104	11 SAMPLE	S95T001066	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1551

EAC 6-12-95
Analyst Signature Date

EAC 6-12-95
Analyst Signature Date

Reviewed by John B. Bay 6-14-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

115

LABCORE Data Entry Template for Worklist# 1565

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Segment # 6 Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.99</u>	<u>N/A</u>	
95000085	B-104	3	SAMPLE	S95T001081	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000085	B-104	4	SAMPLE	S95T001081	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	5	SAMPLE	S95T001081	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000085	B-104	6	SAMPLE	S95T001081	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7	SAMPLE	S95T001081	0		LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000085	B-104	8	SAMPLE	S95T001081	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9	SAMPLE	S95T001081	0		SLDVOL01	SOLID	<u>N/A</u>	<u>410</u>		ml
95000085	B-104	10	SAMPLE	S95T001081	0		SLDWT-01	SOLID	<u>N/A</u>	<u>410</u>		g
95000085	B-104	11	SAMPLE	S95T001081	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1565

EC 6-14-95
Analyst Signature Date

EC 6-15-95
Analyst Signature Date

Reviewed by Stacy B. Bury 06/14/95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1585

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #1 Riser 7 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.99</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001087	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>100</u>		mL
95000088	B-104	4 SAMPLE	S95T001087	0	DLIQWT01	SOLID	<u>N/A</u>	<u>127</u>		g
95000088	B-104	5 SAMPLE	S95T001087	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.3</u>		g/mL
95000088	B-104	6 SAMPLE	S95T001087	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7 SAMPLE	S95T001087	0	LLIQWT01	SOLID	<u>N/A</u>	<u>10</u>		g
95000088	B-104	8 SAMPLE	S95T001087	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9 SAMPLE	S95T001087	0	SLDVOL01	SOLID	<u>N/A</u>	<u>222</u>		mL
95000088	B-104	10 SAMPLE	S95T001087	0	SLDWT-01	SOLID	<u>N/A</u>	<u>222</u>		g
95000088	B-104	11 SAMPLE	S95T001087	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1585

EC 6-15-95
Analyst Signature Date

EC 6-15-95
Analyst Signature Date

Reviewed by ATK B. Bay 6-15-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1586

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #2 Riser 7 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001088	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000088	B-104	4 SAMPLE	S95T001088	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5 SAMPLE	S95T001088	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000088	B-104	6 SAMPLE	S95T001088	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7 SAMPLE	S95T001088	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000088	B-104	8 SAMPLE	S95T001088	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9 SAMPLE	S95T001088	0	SLDVOL01	SOLID	<u>N/A</u>	<u>294</u>		ml
95000088	B-104	10 SAMPLE	S95T001088	0	SLDWT-01	SOLID	<u>N/A</u>	<u>294</u>		g
95000088	B-104	11 SAMPLE	S95T001088	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1586

EC 6-15-95
Analyst Signature Date

EC 6-15-95
Analyst Signature Date

Revised by Arthur B. Og 6-15-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1637

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #3 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500</u>	<u>499.99</u>	<u>N/A</u>	
95000088	B-104	3	SAMPLE	S95T001118	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000088	B-104	4	SAMPLE	S95T001118	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5	SAMPLE	S95T001118	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000088	B-104	6	SAMPLE	S95T001118	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7	SAMPLE	S95T001118	0		LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000088	B-104	8	SAMPLE	S95T001118	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9	SAMPLE	S95T001118	0		SLDVOL01	SOLID	<u>N/A</u>	<u>230</u> <u>305</u>		mL
95000088	B-104	10	SAMPLE	S95T001118	0		SLDWT-01	SOLID	<u>N/A</u>	<u>305</u>		g
95000088	B-104	11	SAMPLE	S95T001118	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1637

EC 6-19-95
Analyst Signature Date

EC 6-19-95
Analyst Signature Date

Reviewed by A.H.B. Bong 6-19-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1638

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-2

Worklist Comment: B-104 C89 Seg #4 Riser 7 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.98</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001119	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000088	B-104	4 SAMPLE	S95T001119	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5 SAMPLE	S95T001119	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000088	B-104	6 SAMPLE	S95T001119	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7 SAMPLE	S95T001119	0	LLIQWT01	SOLID	<u>N/A</u>	<u>25</u>		g
95000088	B-104	8 SAMPLE	S95T001119	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9 SAMPLE	S95T001119	0	SLDVOL01	SOLID	<u>N/A</u>	<u>260</u>		ml
95000088	B-104	10 SAMPLE	S95T001119	0	SLDWT-01	SOLID	<u>N/A</u>	<u>360</u>		g
95000088	B-104	11 SAMPLE	S95T001119	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1638

EC 6-19-95
Analyst Signature Date

EC 6-19-95
Analyst Signature Date

Removal by Atch B. B. B. 6-19-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1639

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #5 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500</u>	<u>499.98</u>	<u>N/A</u>	
95000088	B-104	3	SAMPLE	S95T001120	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000088	B-104	4	SAMPLE	S95T001120	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5	SAMPLE	S95T001120	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000088	B-104	6	SAMPLE	S95T001120	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7	SAMPLE	S95T001120	0		LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000088	B-104	8	SAMPLE	S95T001120	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9	SAMPLE	S95T001120	0		SLDVOL01	SOLID	<u>N/A</u>	<u>300</u>		mL
95000088	B-104	10	SAMPLE	S95T001120	0		SLDWT-01	SOLID	<u>N/A</u>	<u>411</u>		g
95000088	B-104	11	SAMPLE	S95T001120	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1639

EC
Analyst Signature Date 6-20-95

EC
Analyst Signature Date 6-20-95

Reviewed by Attila B. Nagy 6-20-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1640

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #6 Riser 7 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001121	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000088	B-104	4 SAMPLE	S95T001121	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5 SAMPLE	S95T001121	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000088	B-104	6 SAMPLE	S95T001121	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7 SAMPLE	S95T001121	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000088	B-104	8 SAMPLE	S95T001121	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9 SAMPLE	S95T001121	0	SLDVOL01	SOLID	<u>N/A</u>	<u>300</u>		mL
95000088	B-104	10 SAMPLE	S95T001121	0	SLDWT-01	SOLID	<u>N/A</u>	<u>407</u>		g
95000088	B-104	11 SAMPLE	S95T001121	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1640

EC 6-20-95
Analyst Signature Date

EC 6-20-95
Analyst Signature Date

Reviewed by Att. B. Song 6-20-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1641

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C89 Seg #7 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20g</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500g</u>	<u>499.98</u>	<u>N/A</u>	
95000088	B-104	3	SAMPLE	S95T001122	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000088	B-104	4	SAMPLE	S95T001122	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000088	B-104	5	SAMPLE	S95T001122	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000088	B-104	6	SAMPLE	S95T001122	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000088	B-104	7	SAMPLE	S95T001122	0		LLIQWT01	SOLID	<u>N/A</u>	<u>8</u>		g
95000088	B-104	8	SAMPLE	S95T001122	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000088	B-104	9	SAMPLE	S95T001122	0		SLDVOL01	SOLID	<u>N/A</u>	<u>320</u>		ml
95000088	B-104	10	SAMPLE	S95T001122	0		SLDWT-01	SOLID	<u>N/A</u>	<u>424</u>		g
95000088	B-104	11	SAMPLE	S95T001122	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist # 1641

EC 6-20-95
Analyst Signature Date

EC 6-20-95
Analyst Signature Date

reviewed by J. H. B. Boy 6-20-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1566

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 Segment # 7 Riser 2 Extrusion

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.99</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001082	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000085	B-104	4 SAMPLE	S95T001082	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000085	B-104	5 SAMPLE	S95T001082	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000085	B-104	6 SAMPLE	S95T001082	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	7 SAMPLE	S95T001082	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000085	B-104	8 SAMPLE	S95T001082	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1157</u>		
95000085	B-104	9 SAMPLE	S95T001082	0	SLDVOL01	SOLID	<u>N/A</u>	<u>294</u>		mL
95000085	B-104	10 SAMPLE	S95T001082	0	SLDWT-01	SOLID	<u>N/A</u>	<u>294</u>		g
95000085	B-104	11 SAMPLE	S95T001082	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 1566

EC 6-15-95
Analyst Signature Date
EC 6-15-95
Analyst Signature Date
Reviewed by ASH/By 6-15-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-137, REV. 1

SAMPLE PREPARATIONS

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LABCORE Data Entry Template for Worklist#

1696

Analyst: _____ Instrument: BA000 _____ Book # _____

Method: LO-160-103 Rev/Mod A1

Worklist Comment: B-104 C-88 SEG1 HOMOGENIZATION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20.00	19.98	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500	499.81	N/A	
95000085	B-104	3 SAMPLE	S95T001048	0	HOMGNZ01	SOLID	N/A	Complete		

Final page for worklist # 1696

Alan Campbell 6-26-95
Analyst Signature Date

[Signature] 6-26-95
Analyst Signature Date

Data Entry Comments:

Batch # 95001634

Reviewed by
RK Fuller
6/26/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1773

Analyst: ABE Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A7

Worklist Comment: B-104 C88 S2 HOMOGENIZATION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.81</u>	N/A	
95000085	B-104	3 SAMPLE	S95T001052	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000085	B-104	4 SAMPLE	S95T001053	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		

Final page for worklist # 1773

Alan Campbell
Analyst Signature Date

Alan Campbell
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Full 7-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1763

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 88 Seg 3 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.80</u>	N/A	
95000085	B-104	3 SAMPLE	S95T001059	0	<u>7147</u> HOMGNZ01	SOLID	N/A	<u>Complete</u>		
95000085	B-104	4 SAMPLE	S95T001060	0	<u>7146</u> HOMGNZ01	SOLID	N/A	<u>Complete</u>		

Final page for worklist # **1763**

Alan B Campbell 6/30/95
Analyst Signature Date

Alan B Campbell 6/30/95
Analyst Signature Date

Data Entry Comments:

Reviewed by PKZiller 6/30/95 @ 3:50 pm.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1647

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 88 Segment #4

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u> 499.7	<u>499.79</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001069	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>complete</u>		
95000085	B-104	4 SAMPLE	S95T001070	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>complete</u>		

Final page for worklist # 1647

Alan Campbell 7/6/95
Analyst Signature Date

7/6/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 7-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1774

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 C88 S5 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1. INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2. INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.80</u>	<u>N/A</u>	
95000085	B-104	3. SAMPLE	S95T001073	0	7235 HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000085	B-104	4. SAMPLE	S95T001074	0	7236 HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		

Final page for worklist # 1774

ABC Campbell 7/7/95
Analyst Signature Date

ABC Campbell 7/7/95
Analyst Signature Date

Data Entry Comments:

Reviewed by P.K. Fuller 7/10/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1755

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 88 Segment 6 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	6/29 ABC 20:01 20 19.99			N/A
		2 INSTCHK02			EXTRUD01	SOLID	6/29 ABC 449.86 500 499.99			N/A
95000085	B-104	3 SAMPLE	S95T001089	07238	HOMGNZ017098	SOLID	N/A	Complete		
95000085	B-104	4 SAMPLE	S95T001090	07239	HOMGNZ017099	SOLID	N/A	Complete		

Final page for worklist # 1755

Alan B Campbell 6/29/95
Analyst Signature Date

Alan B Campbell 6/29/95
Analyst Signature Date

Data Entry Comments:

Reviewed by PK Fuller 6/29/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1659

Analyst: RK7 Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 CORE 88 SEG.7 HOMOGENIZATION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>29.00</u> <u>500.00</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	<u>RK 7/28/95</u> SOLID	<u>499.49</u>	<u>499.79</u>	<u>N/A</u>	
95000085	B-104	3 SAMPLE	S95T001097	0	HOMGNZ017240	SOLID	<u>N/A</u>	<u>Comp</u>		
95000085	B-104	4 SAMPLE	S95T001098	0	HOMGNZ017242	SOLID	<u>N/A</u>	<u>Comp</u>		

Final page for worklist # 1659.

Keith Fuller 6/28/95
Analyst Signature Date

Keith Fuller 6/28/95
Analyst Signature Date

Data Entry Comments: Reviewed by RK 7/28/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1757

Analyst: ARK Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg 2 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20	19.99	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500	499.98	N/A	
95000088	B-104	3 SAMPLE	S95T001111	0	HOMGNZ01	SOLID	N/A	Complete		
95000088	B-104	4 SAMPLE	S95T001112	0	HOMGNZ01	SOLID	N/A	Complete		
95000088	B-104	5 SAMPLE	S95T001158	0 X	ARCHIV01	SOLID	N/A	60.9		g
95000088	B-104	6 SAMPLE	S95T001159	0 X	ARCHIV01	SOLID	N/A	58.2		g

Final page for worklist # 1757

Alan B Campbell 6/29/95
Analyst Signature Date

Alan Campbell 6/29/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RR Fuller 6/29/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1660

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg. 1 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>14.90</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.70</u>	<u>N/A</u>	<u>RK7 6/28/95</u>
95000088	B-104	3 SAMPLE	S95T001105	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	4 SAMPLE	S95T001106	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		

Final page for worklist # 1660

Alan B Campbell 6/27/95
Analyst Signature Date

Alan B Campbell 6/27/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 6/28/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1681

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg 3 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001128	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	4 SAMPLE	S95T001129	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	5 SAMPLE	S95T001130	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>9.8</u>		g
95000088	B-104	6 SAMPLE	S95T001131	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>10.3</u>		g
95000088	B-104	7 SAMPLE	S95T001160	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>61.1</u>		g
95000088	B-104	8 SAMPLE	S95T001161	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>59.5</u>		g

Final page for worklist # 1681

Alan B Campbell 6/26/95
Analyst Signature Date

Alan B Campbell 6/26/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RH Fuller 6/28/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1682

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg 4 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.72</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001134	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	4 SAMPLE	S95T001135	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	5 SAMPLE	S95T001136	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>14.9</u>		g
95000088	B-104	6 SAMPLE	S95T001137	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>13.7</u>		g
95000088	B-104	7 SAMPLE	S95T001162	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>60.4</u>		g
95000088	B-104	8 SAMPLE	S95T001163	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>59.9</u>		g

Final page for worklist # 1682

Alan B. Campbell 6/26/95
Analyst Signature Date

Alan B. Campbell 6/26/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 6/26/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1683

Analyst: ABC Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg 5 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.72</u>	N/A	
95000088	B-104	3 SAMPLE	S95T001140	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Comp</u>		
95000088	B-104	4 SAMPLE	S95T001141	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Comp</u>		
95000088	B-104	5 SAMPLE	S95T001142	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>11.3</u>		g
95000088	B-104	6 SAMPLE	S95T001143	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>8.5</u>		g
95000088	B-104	7 SAMPLE	S95T001164	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>61.1</u>		g
95000088	B-104	8 SAMPLE	S95T001165	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>66.1</u>		g

Final page for worklist # 1683

Alan B Campbell 6/26/95
Analyst Signature Date

ABC Campbell 6/26/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 6/26/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

167

LABCORE Data Entry Template for Worklist#

1685

Analyst: WBE Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg.6 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.9</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.7</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001146	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	4 SAMPLE	S95T001147	0	HOMGNZ01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	5 SAMPLE	S95T001148	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>9.5</u>		g
95000088	B-104	6 SAMPLE	S95T001149	0	SUBSMPL1	SOLID	<u>N/A</u>	<u>9.0</u>		g
95000088	B-104	7 SAMPLE	S95T001166	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>59.9</u>		g
95000088	B-104	8 SAMPLE	S95T001167	0 X	ARCHIV01	SOLID	<u>N/A</u>	<u>58.8</u>		g

Final page for worklist #

1685

Alan B Campbell 6/26/95
Analyst Signature Date

Alan B Campbell 6/26/95
Analyst Signature Date

Data Entry Comments:

Reviewed by RK Fuller 6/26/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1758

Analyst: AB Instrument: BA000 Book # _____

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-104 Core 89 Seg 7 Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.90</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.70</u>	<u>N/A</u>	
95000088	B-104	3 SAMPLE	S95T001152	0	HOMGNZ017255	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	4 SAMPLE	S95T001153	0	HOMGNZ017256	SOLID	<u>N/A</u>	<u>Complete</u>		
95000088	B-104	5 SAMPLE	S95T001154	0	SUBSMPL17120	SOLID	<u>N/A</u>	<u>11.3</u>		g
95000088	B-104	6 SAMPLE	S95T001155	0	SUBSMPL17121	SOLID	<u>N/A</u>	<u>8.5</u>		g
95000088	B-104	7 SAMPLE	S95T001168	0 X	ARCHIVO17230	SOLID	<u>N/A</u>	<u>60.6</u>		g
95000088	B-104	8 SAMPLE	S95T001169	0 X	ARCHIVO17233	SOLID	<u>N/A</u>	<u>60.9</u>		g

Final page for worklist #

1758

Alan B Campbell 6/29/95
Analyst Signature Date

Alan B Campbell 6/24/95
Analyst Signature Date

Data Entry Comments:

Reviewed by PKJ 6/29/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1581

Analyst: LMH Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod 0-3

Worklist Comment: B-104 FUSION - 1049-> 1050, 1055-> 1056

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250	250	N/A	g/L
95000085	B-104	2 SAMPLE	S95T001050	0 F	FUSION01	SOLID	N/A	2.2524		g/L
		• 5614g →	250L =					456		
								456		
95000085	B-104	3 DUP	S95T001050	0 F	FUSION01	SOLID	2.2524	2.1184	N/A	g/L
		• 5296g →	250L =							
95000085	B-104	4 SAMPLE	S95T001056	0 F	FUSION01	SOLID	N/A	2.2768		g/L
		• 5692g →	250L =							
95000085	B-104	5 DUP	S95T001056	0 F	FUSION01	SOLID	2.2768	2.2524	N/A	g/L
		• 5631g →	250L =							

Final page for worklist # 1581

Analyst Signature

Date

6-23-95

Analyst Signature

Date

6-23-95

Data Entry Comments:

OTR: 1 mrad/hr

HPT: Scot Ladderbach

Bertrand Griffin II

6-27-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1582

Analyst: S. Morris Instrument: FUS01 ALL1066 Book # N/A

Method: LA-549-141 Rev/Mod D-O

Worklist Comment: B-104 FUSION - 1054-> 1057, 1061-> 1063

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250ml		N/A	g/L
95000085	B-104	2 SAMPLE	S95T001057	0 F	FUSION01	SOLID	N/A	2.2100		g/L
			.5525		250ml			2.2460		
95000085	B-104	3 DUP	S95T001057	0 F	FUSION01	SOLID	2.2100	2.1628	7-9-95	g/L
			.5613		250ml				N/A	
95000085	B-104	4 SAMPLE	S95T001063	0 F	FUSION01	SOLID	N/A	2.1620		g/L
			.5405		250ml					
95000085	B-104	5 DUP	S95T001063	0 F	FUSION01	SOLID	2.1620	2.1628	N/A	g/L
			.5407		250ml					

Final page for worklist # 1582

S. Morris 7-9-95
Analyst Signature Date

Dan Hammett 7-10-95
Analyst Signature Date

Data Entry Comments:

HPT - Sam Shemel. Scale Calibrated @ 150.000g.
Sample 1057 : Dup 10ml HCl, 10ml Con Nitric pale yellow / clear
Sample 1063 : Dup 10ml HCl, 10ml Con Nitric pale yellow / clear

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Dose Rate 1ml/hr
171
Beitrand 2211 IL 7-10-95

LABCORE Data Entry Template for Worklist# 1584

Analyst: S. Morris Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D.O

Worklist Comment: B-104 FUSION - 1062->1064, 1067->1071

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>		<u>N/A</u>	<u>g/L</u>
95000085	B-104	2 SAMPLE	S95T001064	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1684</u>		<u>g/L</u>
			<u>.5421 → 250ml</u>				<u>2.1684</u>			
95000085	B-104	3 DUP	S95T001064	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1988</u>	<u>N/A</u>	<u>g/L</u>
			<u>.5497 → 250ml</u>				<u>2.1988</u>			
95000085	B-104	4 SAMPLE	S95T001071	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.0184</u>		<u>g/L</u>
			<u>.5046 → 250ml</u>				<u>2.0184</u>			
95000085	B-104	5 DUP	S95T001071	0 F	FUSION01	SOLID	<u>2.0184</u>	<u>2.0144</u>	<u>N/A</u>	<u>g/L</u>
			<u>.5036 → 250ml</u>							

Final page for worklist # 1584

S. Morris
Analyst Signature
7-9-95
Date

Angela Morris
Analyst Signature
7-10-95
Date

Data Entry Comments:

HPT-Sam Shemel Scale Calibrated @ 150.000g.

Sample 1064 & dup 10ml HCl, 1064 10ml Con Nitric, Dup 25ml Con Nitric

Sample 1071 & dup 10ml HCl, 10ml Con Nitric

All pale yellow / clear

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Dose Rate 1mR/hr

Bertrand H. H. II

7-10-95

1772

LABCORE Data Entry Template for Worklist# 1587

Analyst: SNOW Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: B-104 FUSION - 1068->1072, 1075->1077

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>		<u>N/A</u>	g/L
95000085	B-104	2 SAMPLE	S95T001072	0 F	FUSION01	SOLID	<u>N/A</u>	<u>20.5040</u>		g/L
		<u>5.1260 → 250ml</u>								
95000085	B-104	3 DUP	S95T001072	0 F	FUSION01	SOLID	<u>20.504</u>	<u>20.4880</u>	<u>N/A</u>	g/L
		<u>5.1220 → 250ml</u>								
95000085	B-104	4 SAMPLE	S95T001077	0 F	FUSION01	SOLID	<u>N/A</u>	<u>18.1840</u>		g/L
		<u>4.5460 → 250ml</u>								
95000085	B-104	5 DUP	S95T001077	0 F	FUSION01	SOLID	<u>18.184</u>	<u>18.1040</u>	<u>N/A</u>	g/L
		<u>4.5260 → 250ml</u>								

Final page for worklist # 1587

SNOW 7-10-95
Analyst Signature Date

[Signature] 7-11-95
Analyst Signature Date

Data Entry Comments:

HPT Sam Shemel Dose Rate = 75/mRAD/HR HPT
Sample 1072: Dip 10 ml HCl, 25 ml Con Nitric pale yellow & clear
Sample 1077: Dip 10 ml HCl, 25 ml Con Nitric pale yellow & clear

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Bertrand Griffin II 173 7-11-95

LABCORE Data Entry Template for Worklist# 1588

Analyst: S. Morris Instrument: FUS01 sm AL11066 ~~AL11~~ Book # N/A

Method: LA-549-141 Rev/Mod D-O

Worklist Comment: B-104 FUSION - 1076->1079, 1091->1093

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>		N/A	g/L
95000085	B-104	2 SAMPLE	S95T001079	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.9308</u>		g/L
		<u>.4827 → 250ml</u>								
95000085	B-104	3 DUP	S95T001079	0 F	FUSION01	SOLID	<u>1.9308</u>	<u>1.9412</u>	N/A	g/L
		<u>.4853 → 250ml</u>								
95000085	B-104	4 SAMPLE	S95T001093	0 F	FUSION01	SOLID	<u>N/A</u>	<u>1.9200</u>	<u>1.9412</u>	g/L
		<u>.4800 → 250ml</u>								
95000085	B-104	5 DUP	S95T001093	0 F	FUSION01	SOLID	<u>1.9200</u>	<u>1.9412</u>	N/A	g/L
		<u>.4458 → 250ml</u>								

Final page for worklist # 1588

S. Morris 7-3-95
Analyst Signature Date

E Ann Lambert 07/04/95
Analyst Signature Date
E Ann Lambert 07/09/95
Darryl Hammond 7/4/95

Bertrand Buffin II 7-6-95
Dose rate 10 mRad/hr B Hammond 7-4-95
Samples & Dups

Data Entry Comments: HPT was Sam Shemel. Scale calibrated 150.0001g.

1079 Sample & Dup 20ml HCL Orange/Brown

1093 Sample & Dup 20ml HCL Orange/Brown

1093 Sample & Dup 10ml con Nitric
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, 174
R = Replicate Number, A = Aliquot Code.

1079 yellow/clear (Dup) yellow w/BLK particulates

1093 sample & dup yellow & clear EAL 07/04/95 ABD 7-6-95

LABCORE Data Entry Template for Worklist# 1589

Analyst: S. Morris Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-O

Worklist Comment: B-104 FUSION - 1092->1094

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>	<u>N/A</u>		g/L
95000085	B-104	2 SAMPLE	S95T001094 0 F		FUSION01	SOLID	<u>N/A</u>	<u>1.9284</u>		g/L
		<u>.4821</u>	<u>→ 250ml</u>							
95000085	B-104	3 DUP	S95T001094 0 F		FUSION01	SOLID	<u>1.9284</u>	<u>1.9512</u>	<u>N/A</u>	g/L
		<u>.4878</u>	<u>→ 250ml</u>							

Final page for worklist # 1589

S. Morris 7-3-95
Analyst Signature Date

Anna Lambel 07/04/95
Analyst Signature Date
Anna Lambel 07/04/95
Jay Hammett 7/4/95

Dose Rate 10mead/hr D. Hammett 7-4-95
Sample + Dup.

Data Entry Comments: HPT- Sam Shemel. Scale was calibrated 150.0001g.

1094 both sample & dup 20 ml HCL Orange / Brown (sample)

1094 both sample & dup - 10ml ^{con} nitric Brown / Clear (duplicate)

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Bertrand Hoffman II 175 yellow / clear (sample)
7-6-95 yellow / w/ blk particulates (Dup)
EAL 07/04/95

LABCORE Data Entry Template for Worklist#

1733

Analyst: KRM Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: B-104 FUSION - 1107->1109, 1108->1110

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>	<u>N/A</u>		g/L
95000088	B-104	2 SAMPLE	S95T001109 0 F		FUSION01	SOLID	<u>N/A</u>	<u>11.5100</u>		g/L
		<u>2.8775 -> 250ml</u>								
95000088	B-104	3 SAMPLE	S95T001109 0		DOSE-02	SOLID	<u>N/A</u>	<u>30</u>		mrad/hour
95000088	B-104	4 DUP	S95T001109 0 F		FUSION01	SOLID	<u>11.5100</u>	<u>11.4852</u>	<u>N/A</u>	g/L
		<u>2.8713 -> 250ml</u>								
95000088	B-104	5 DUP	S95T001109 0		DOSE-02	SOLID	<u>11.51</u>	<u>11.4852</u>	<u>N/A</u>	mrad/hour
							<u>7-1-95</u>			
95000088	B-104	6 SAMPLE	S95T001110 0 F		FUSION01	SOLID	<u>N/A</u>	<u>4.0508</u>		g/L
		<u>1.0127 -> 250ml</u>								
95000088	B-104	7 SAMPLE	S95T001110 0		DOSE-02	SOLID	<u>N/A</u>	<u>20</u>		mrad/hour
95000088	B-104	8 DUP	S95T001110 0 F		FUSION01	SOLID	<u>4.0508</u>	<u>4.0756</u>	<u>N/A</u>	g/L
		<u>1.0189 -> 250ml</u>								
95000088	B-104	9 DUP	S95T001110 0		DOSE-02	SOLID	<u>4.0508</u>	<u>4.0756</u>	<u>N/A</u>	mrad/hour
							<u>7-1-95</u>	<u>20</u>		

Final page for worklist #

1733

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

SAMPLE 1109 20ml HCL, 35ml HNO₃-YELLOW, CLEAR NO SOLIDS

SAMPLE 1109 DUP 20ml HCL 35ml HNO₃ - YELLOW CLEAR NO SOLIDS; SAMPLE 1110 20ml HCL

40ml HNO₃-YELLOW, CLEAR NO SOLIDS; Dup 1110 20ml HCL 40ml HNO₃ YELLOW, CLEAR NO SOLIDS

HPT WAS LS CORBAEY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

Bethanne G. Gorman II
7-2-95

176

LABCORE Data Entry Template for Worklist#

1735

Analyst: KRM Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: B-104 FUSION - 1113->1115, 1114->1116

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250mL</u>		<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001115	0 F	FUSION01	SOLID	<u>N/A</u>	<u>7.0024</u>		g/L
		<u>1.75062g -> 250mL</u>								
95000088	B-104	3 SAMPLE	S95T001115	0	DOSE-02	SOLID	<u>N/A</u>	<u>20</u>		mrads/hour
95000088	B-104	4 DUP	S95T001115	0 F	FUSION01	SOLID	<u>7.0024</u>	<u>6.8224</u>	<u>N/A</u>	g/L
		<u>1.70560g -> 250mL</u>								
95000088	B-104	5 DUP	S95T001115	0	DOSE-02	SOLID		<u>20</u>	<u>N/A</u>	mrads/hour
95000088	B-104	6 SAMPLE	S95T001116	0 F	FUSION01	SOLID	<u>N/A</u>	<u>7.1900</u>		g/L
		<u>1.7975g -> 250mL</u>								
95000088	B-104	7 SAMPLE	S95T001116	0	DOSE-02	SOLID	<u>N/A</u>	<u>25</u>		mrads/hour
95000088	B-104	8 DUP	S95T001116	0 F	FUSION01	SOLID	<u>7.1900</u>	<u>7.1740</u>	<u>N/A</u>	g/L
		<u>1.7935g -> 250mL</u>								
95000088	B-104	9 DUP	S95T001116	0	DOSE-02	SOLID		<u>25</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

1735

[Signature] 7-2-95
Analyst Signature Date

[Signature] 7-4-95
Analyst Signature Date

Data Entry Comments:

1115 - 20mL HCL 40mL HNO₃ GREEN-CLEAR L1% SOLIDS; 1115-Dup 20mL HCL
40mL HNO₃ GREEN-CLEAR L1% SOLIDS; 1116 - 20mL HCL 40mL HNO₃ L1% SOLIDS
GREEN-CLEAR; 1116-Dup - 20mL HCL 40mL HNO₃ GREEN-CLEAR L1% SOLIDS
1116 WAS LS CORBALEY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

[Signature] 177 7-5-95

LABCORE Data Entry Template for Worklist#

1737

Analyst: KRM Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-0

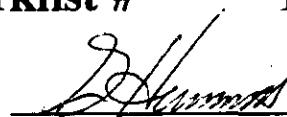
Worklist Comment: B-104 FUSION - 1130->1132, 1131->1133

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250 mL</u>		<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001132	0 F	FUSION01	SOLID	<u>N/A</u>	<u>7.2764</u>		g/L
	<u>1.8191</u> →	<u>250 mL</u>								
95000088	B-104	3 SAMPLE	S95T001132	0	DOSE-02	SOLID	<u>N/A</u>	<u>20</u>		mrad/hour
95000088	B-104	4 DUP	S95T001132	0 F	FUSION01	SOLID	<u>7.2764</u>	<u>7.2662</u>	<u>N/A</u>	g/L
	<u>1.8163</u> →	<u>250 mL</u>								
95000088	B-104	5 DUP	S95T001132	0	DOSE-02	SOLID		<u>20</u>	<u>N/A</u>	mrad/hour
95000088	B-104	6 SAMPLE	S95T001133	0 F	FUSION01	SOLID	<u>N/A</u>	<u>7.0420</u>		g/L
	<u>1.7600</u> →	<u>250 mL</u>								
95000088	B-104	7 SAMPLE	S95T001133	0	DOSE-02	SOLID	<u>N/A</u>	<u>20</u>		mrad/hour
95000088	B-104	8 DUP	S95T001133	0 F	FUSION01	SOLID	<u>7.0400</u>	<u>7.0560</u>	<u>N/A</u>	g/L
	<u>1.7640</u> →	<u>250 mL</u>								
95000088	B-104	9 DUP	S95T001133	0	DOSE-02	SOLID		<u>20</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

1737

 7-2-95
Analyst Signature Date

 7-3-95
Analyst Signature Date

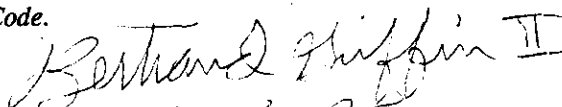
Data Entry Comments:

1132 - BOTH SAMPLE 2 Dup 20mL HCL 45mL HNO₃ GREEN - CLEAR

L 1% SOLIDS ; 1133 - BOTH SAMPLE 2 Dup - 20mL HCL 45mL HNO₃ GREEN

CLEAR L 1% SOLIDS HPT WAS LS CORBALEY

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.


7-6-95

178

LABCORE Data Entry Template for Worklist#

1738

Analyst: SNorris Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod D-0

Worklist Comment: B-104 FUSION - 1136->1138, 1137->1139

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>		N/A	g/L
95000088	B-104	2 SAMPLE	S95T001138	0 F	FUSION01	SOLID	N/A	<u>20.1320</u>		g/L
		<u>5.0330</u> → <u>250ml</u>								
95000088	B-104	3 SAMPLE	S95T001138	0	DOSE-02	SOLID	N/A	<u>50</u>		mrad/hour
95000088	B-104	4 DUP	S95T001138	0 F	FUSION01	SOLID	<u>20.1320</u>	<u>20.0720</u>	N/A	g/L
		<u>5.0180</u> → <u>250ml</u>								
95000088	B-104	5 DUP	S95T001138	0	DOSE-02	SOLID		<u>50</u>	N/A	mrad/hour
95000088	B-104	6 SAMPLE	S95T001139	0 F	FUSION01	SOLID	N/A	<u>19.8960</u>		g/L
		<u>4.9740</u> → <u>250ml</u>								
95000088	B-104	7 SAMPLE	S95T001139	0	DOSE-02	SOLID	N/A	<u>50</u>		mrad/hour
95000088	B-104	8 DUP	S95T001139	0 F	FUSION01	SOLID	<u>19.8960</u>	<u>19.7560</u>	N/A	g/L
		<u>4.939</u> → <u>250ml</u>								
95000088	B-104	9 DUP	S95T001139	0	DOSE-02	SOLID		<u>50</u>	N/A	mrad/hour

Final page for worklist #

1738

SNorris 7-10-95
Analyst Signature Date

Bethand Giffin II 7-11-95
Analyst Signature Date

Data Entry Comments:

HPT Sam Shemel Dose Rate = 50. MRAD/HR HPT
Sample 1138 : Dup 10ml HCl, 30ml Con Nitric pale yellow/clear
Sample 1139 : Dup 10ml HCl, 30ml Con Nitric pale yellow/clear

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Bethand Giffin II 1797-11-95

LABCORE Data Entry Template for Worklist#

1739

Analyst:

QAM

Instrument:

FUS01 AL1066

Book #

N/A

Method: LA-549-141 Rev/Mod

D-O

Worklist Comment: B-104 FUSION - 1142->1144, 1143->1145

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250ml</u>		<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001144	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.2988</u>		g/L
		<u>5747 → 250ml</u>								
95000088	B-104	3 SAMPLE	S95T001144	0	DOSE-02	SOLID	<u>N/A</u>		<u>1</u>	mrads/hour
95000088	B-104	4 DUP	S95T001144	0 F	FUSION01	SOLID	<u>2.2988</u>	<u>2.2589</u>	<u>N/A</u>	g/L
		<u>5646 → 250ml</u>								
95000088	B-104	5 DUP	S95T001144	0	DOSE-02	SOLID		<u>1</u>	<u>N/A</u>	mrads/hour
95000088	B-104	6 SAMPLE	S95T001145	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.2420</u>		g/L
		<u>5605 → 250ml</u>								
95000088	B-104	7 SAMPLE	S95T001145	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		mrads/hour
95000088	B-104	8 DUP	S95T001145	0 F	FUSION01	SOLID	<u>2.2420</u>	<u>2.2480</u>	<u>N/A</u>	g/L
		<u>5620 → 250ml</u>								
95000088	B-104	9 DUP	S95T001145	0	DOSE-02	SOLID		<u>1</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

1739

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Blank - 20ml HCl, 20ml HNO₃, <190 solids.

Samples & dup - 20ml HCl, 25ml HNO₃, <190 solids.

1PT was Charlene Cooper. BGI 7-18-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1740

Analyst:

[Signature]

Instrument: FUS01

AL11066

Book # *N/A*

Method: LA-549-141 Rev/Mod

D-0

Worklist Comment: B-104 FUSION - 1148->1150, 1149->1151

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<i>250ml</i>		N/A	g/L
95000088	B-104	2 SAMPLE	S95T001150	0 F	FUSION01	SOLID	N/A	<i>2.1128</i>		g/L
		<i>.5282g → 250ml</i>								
95000088	B-104	3 SAMPLE	S95T001150	0	DOSE-02	SOLID	N/A	<i>1.5</i>		mrad/hour
95000088	B-104	4 DUP	S95T001150	0 F	FUSION01	SOLID	<i>2.1128</i>	<i>2.0968</i>	N/A	g/L
		<i>.5242g → 250ml</i>								
95000088	B-104	5 DUP	S95T001150	0	DOSE-02	SOLID		<i>1.3</i>	N/A	mrad/hour
95000088	B-104	6 SAMPLE	S95T001151	0 F	FUSION01	SOLID	N/A	<i>2.3164</i>		g/L
		<i>.5791 → 250ml</i>								
95000088	B-104	7 SAMPLE	S95T001151	0	DOSE-02	SOLID	N/A	<i>1</i>		mrad/hour
95000088	B-104	8 DUP	S95T001151	0 F	FUSION01	SOLID	<i>2.3164</i>	<i>2.2968</i>	N/A	g/L
		<i>.5742 → 250ml</i>								
95000088	B-104	9 DUP	S95T001151	0	DOSE-02	SOLID		<i>1</i>	N/A	mrad/hour

Final page for worklist #

1740

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Samples, blanks & dups < 1% solids 20ml HCl, 20ml HNO₃
HPT was Daniel Haines

J. Bernhard Griffin II

7-17-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1741

Analyst:

[Signature]

Instrument:

FUS01

W1066

Book #

N/A

Method: LA-549-141 Rev/Mod

0-0

Worklist Comment: B-104 FUSION - 1154->1156, 1155->1157

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<i>250ml</i>		N/A	g/L
95000088	B-104	2 SAMPLE	S95T001156	0 F	FUSION01	SOLID	N/A	<i>2.1140</i>		g/L
			<i>.5285g -> .2501</i>							
95000088	B-104	3 SAMPLE	S95T001156	0	DOSE-02	SOLID	N/A	<i>1.3</i>		mrads/hour
95000088	B-104	4 DUP	S95T001156	0 F	FUSION01	SOLID	<i>2.1140</i>	<i>2.1156</i>	N/A	g/L
			<i>.5289g -> .2501</i>							
95000088	B-104	5 DUP	S95T001156	0	DOSE-02	SOLID		<i>1.3</i>	N/A	mrads/hour
95000088	B-104	6 SAMPLE	S95T001157	0 F	FUSION01	SOLID	N/A	<i>2.0081</i>		g/L
			<i>.5021g -> .2501</i>							
95000088	B-104	7 SAMPLE	S95T001157	0	DOSE-02	SOLID	N/A	<i>1.3</i>		mrads/hour
95000088	B-104	8 DUP	S95T001157	0 F	FUSION01	SOLID	<i>2.0081</i>	<i>2.0512</i>	N/A	g/L
			<i>.5128g -> .2501</i>							
95000088	B-104	9 DUP	S95T001157	0	DOSE-02	SOLID		<i>1.3</i>	N/A	mrads/hour

Final page for worklist #

1741

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Blank - 20ml HCl, 30 ml HNO₃ < 1% solids HPT - Darryl Haines
Sam 1156 - 20 ml HCl, 30 ml HNO₃ < 1% solids / Dup 1156 20ml HCl, 30ml HNO₃ < 1% solids
1157 - 20 ml HCl, 30 ml HNO₃ < 1% solids / Dup 1157 20ml HCl, 30ml HNO₃ < 1% solids

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Robert Driffin II

182

7-13-95

LABCORE Data Entry Template for Worklist#

1743

Analyst:

[Signature]

Instrument:

FUS01

111066

Book #

N/A

Method: LA-549-141 Rev/Mod

0-0

Worklist Comment: B-104 FUSION - 1099->1101, 1100->1102

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	<i>250ml</i>		N/A	g/L
95000085	B-104	2	SAMPLE	S95T001101	0	F	FUSION01	SOLID	N/A	<i>2.0728</i>		g/L
			<i>5182g → 250ml</i>									
95000085	B-104	3	SAMPLE	S95T001101	0		DOSE-02	SOLID	N/A	<i>2</i>		mrad/hour
95000085	B-104	4	DUP	S95T001101	0	F	FUSION01	SOLID	<i>2.0728</i>	<i>2.1356</i>	N/A	g/L
			<i>5339g → 250ml</i>									
95000085	B-104	5	DUP	S95T001101	0		DOSE-02	SOLID		<i>2</i>	N/A	mrad/hour
95000085	B-104	6	SAMPLE	S95T001102	0	F	FUSION01	SOLID	N/A	<i>2.0020</i>		g/L
			<i>5005g → 250ml</i>									
95000085	B-104	7	SAMPLE	S95T001102	0		DOSE-02	SOLID	N/A	<i>-6</i>		mrad/hour
95000085	B-104	8	DUP	S95T001102	0	F	FUSION01	SOLID	<i>2.0020</i>	<i>2.0410</i>	N/A	g/L
			<i>5110g → 250ml</i>									
95000085	B-104	9	DUP	S95T001102	0		DOSE-02	SOLID		<i>-6</i>	N/A	mrad/hour

Final page for worklist #

1743

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

*Blank - 20ml HCl, 30 ml HNO₃ < 1% solids / Sam 1101 - 20 ml HCl, 35 ml HNO₃ < 1% solids
Dup 1101 - 20ml HCl, 35ml HNO₃ < 1% solids / Sam 1102 - 20ml HCl, 35ml HNO₃ < 1% solids
Dup 1102 - 20ml HCl, 35ml HNO₃ < 1% solids HPT - Darryl Haines*

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Richard Griffin II

7-13-95

183

LABCORE Data Entry Template for Worklist#

2722

Analyst: QAM Instrument: H2O01 AL101010 Book # N/A
Method: LA-504-101 Rev/Mod D-0 WHC-SD-WM-DP-137, REV. 1
Worklist Comment: B-104, H2O DGST, 1108->1848, 1113->1849 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2O01G01	SOLID	100	100	N/A	g/L
95000088	B-104	2 SAMPLE	S95T001848	0 W	H2O01G01	SOLID	N/A	5.3490		g/L
		.5349g → .1001								
95000088	B-104	3 SAMPLE	S95T001848	0	DOSE-02	SOLID	N/A	1		mrad/hour
95000088	B-104	4 DUP	S95T001848	0 W	H2O01G01	SOLID	5.3490	5.3450	N/A	g/L
		.5345g → .1001								
95000088	B-104	5 DUP	S95T001848	0	DOSE-02	SOLID		1	N/A	mrad/hour
95000088	B-104	6 SAMPLE	S95T001849	0 W	H2O01G01	SOLID	N/A	8.3330		g/L
		.8333g → .1001								
95000088	B-104	7 SAMPLE	S95T001849	0	DOSE-02	SOLID	N/A	1		mrad/hour
95000088	B-104	8 DUP	S95T001849	0 W	H2O01G01	SOLID	8.3330	8.2700	N/A	g/L
		.8270g → .1001								
95000088	B-104	9 DUP	S95T001849	0	DOSE-02	SOLID		1	N/A	mrad/hour

Final page for worklist #

2722

QAMurphy 10.6.95
Analyst Signature Date

Lee Jones 10-9-95
Analyst Signature Date

Data Entry Comments:

HPT was Daryl Haines
Bernard Griffin II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2723

Analyst: QAM Instrument: H2001 AU1066 Book # N/A
Method: LA-504-101 Rev/Mod D-0 WHC-SD-WM-DP-137, REV. 1
Worklist Comment: B-104, H2O DGST, 1114->1850, 1130->1851 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001850	0 W	H2001G01	SOLID	<u>N/A</u>	<u>10.4220</u>		g/L
		<u>1.0422g → .1001</u>								
95000088	B-104	3 SAMPLE	S95T001850	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		mrad/hour
95000088	B-104	4 DUP	S95T001850	0 W	H2001G01	SOLID	<u>10.4220</u>	<u>10.4510</u>	<u>N/A</u>	g/L
		<u>1.0437g → .1001</u>								
95000088	B-104	5 DUP	S95T001850	0	DOSE-02	SOLID		<u>1</u>	<u>N/A</u>	mrad/hour
95000088	B-104	6 SAMPLE	S95T001851	0 W	H2001G01	SOLID	<u>N/A</u>	<u>10.3040</u>		g/L
		<u>1.0304g → .1001</u>								
95000088	B-104	7 SAMPLE	S95T001851	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		mrad/hour
95000088	B-104	8 DUP	S95T001851	0 W	H2001G01	SOLID	<u>10.3040</u>	<u>10.3160</u>	<u>N/A</u>	g/L
		<u>1.0346g → .1001</u>								
95000088	B-104	9 DUP	S95T001851	0	DOSE-02	SOLID		<u>1</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

2723

QAM Murphy 10-6-95
Analyst Signature Date

RS Jones 10-9-95
Analyst Signature Date

Data Entry Comments:

HPT was Daryl Haines

Bertrand Ziffm II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2724

Analyst: YAM

Instrument: H2O01 AL1060

Book # N/A

Method: LA-504-101 Rev/Mod D-0

WHC-SD-WM-DP- 137, REV. 1

Worklist Comment: B-104, H2O DGST, 1131->1852, 1136->1853 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	<u>g/L</u>
95000088	B-104	2 SAMPLE	S95T001852	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>10.5770</u>		<u>g/L</u>
		<u>1.0577g → .1000</u>								
95000088	B-104	3 SAMPLE	S95T001852	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		<u>mrad/hour</u>
95000088	B-104	4 DUP	S95T001852	0 W	H2ODIG01	SOLID	<u>10.5770</u>	<u>10.4360</u>	<u>N/A</u>	<u>g/L</u>
		<u>1.0436g → .1000</u>								
95000088	B-104	5 DUP	S95T001852	0	DOSE-02	SOLID		<u>1</u>	<u>N/A</u>	<u>mrad/hour</u>
95000088	B-104	6 SAMPLE	S95T001853	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>10.2830</u>		<u>g/L</u>
		<u>1.0283g → .1000</u>								
95000088	B-104	7 SAMPLE	S95T001853	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.2</u>		<u>mrad/hour</u>
95000088	B-104	8 DUP	S95T001853	0 W	H2ODIG01	SOLID	<u>10.2830</u>	<u>10.2710</u>	<u>N/A</u>	<u>g/L</u>
		<u>1.0271g → .1000</u>								
95000088	B-104	9 DUP	S95T001853	0	DOSE-02	SOLID		<u>1.2</u>	<u>N/A</u>	<u>mrad/hour</u>

Final page for worklist #

2724

YAM 10-6-95
Analyst Signature Date

John 10-9-95
Analyst Signature Date

Data Entry Comments:

HPT was Daryl Haines

Bertrand Zippin II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2725

Analyst: GAM Instrument: H2O01 AL1106L Book # N/A
Method: LA-504-101 Rev/Mod 0-0 WHC-SD-WM-DP- 137, REV. 1
Worklist Comment: B-104, H2O DGST, 1137->1854, 1142->1855 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001854	0 W	H2001G01	SOLID	<u>N/A</u>	<u>10.1110</u>		g/L
		<u>1.0111g -> .100g</u>								
95000088	B-104	3 SAMPLE	S95T001854	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.2</u>		mrad/hour
95000088	B-104	4 DUP	S95T001854	0 W	H2001G01	SOLID	<u>10.1110</u>	<u>10.1680</u>	<u>N/A</u>	g/L
		<u>1.0168g -> .100g</u>								
95000088	B-104	5 DUP	S95T001854	0	DOSE-02	SOLID		<u>1.2</u>	<u>N/A</u>	mrad/hour
95000088	B-104	6 SAMPLE	S95T001855	0 W	H2001G01	SOLID	<u>N/A</u>	<u>10.0960</u>		g/L
		<u>1.0046g -> .100g</u>								
95000088	B-104	7 SAMPLE	S95T001855	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.3</u>		mrad/hour
95000088	B-104	8 DUP	S95T001855	0 W	H2001G01	SOLID	<u>10.0960</u>	<u>10.0770</u>	<u>N/A</u>	g/L
		<u>1.0077g -> .100g</u>								
95000088	B-104	9 DUP	S95T001855	0	DOSE-02	SOLID		<u>1.3</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

2725

GAM 10-6-95
Analyst Signature Date

Thomas J. McEl 10/9/95
Analyst Signature Date

Data Entry Comments:

HPC was Daryl Haines
Bernard Griffin II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2726

Analyst: QAM Instrument: H2001 AL11066 Book # N/A

Method: LA-504-101 Rev/Mod D-0 WHC-SD-WM-DP- 137, REV.1

Worklist Comment: B-104, H2O DGST, 1143->1856, 1148->1857 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001856	0 W	H2001G01	SOLID	<u>N/A</u>	<u>12.3910</u>		g/L
		<u>1.2391g -> .1000</u>								
95000088	B-104	3 SAMPLE	S95T001856	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.3</u>		mrads/hour
95000088	B-104	4 DUP	S95T001856	0 W	H2001G01	SOLID	<u>12.3910</u>	<u>12.4240</u>	<u>N/A</u>	g/L
		<u>1.2424g -> .1000</u>								
95000088	B-104	5 DUP	S95T001856	0	DOSE-02	SOLID		<u>1.3</u>	<u>N/A</u>	mrads/hour
95000088	B-104	6 SAMPLE	S95T001857	0 W	H2001G01	SOLID	<u>N/A</u>	<u>14.2460</u>		g/L
		<u>1.4246g -> .1000</u>								
95000088	B-104	7 SAMPLE	S95T001857	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.5</u>		mrads/hour
95000088	B-104	8 DUP	S95T001857	0 W	H2001G01	SOLID	<u>14.2460</u>	<u>14.2280</u>	<u>N/A</u>	g/L
		<u>1.4228g -> .1000</u>								
95000088	B-104	9 DUP	S95T001857	0	DOSE-02	SOLID		<u>1.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

2726

QAM 10-6-95
Analyst Signature Date

Thomas D. Murphy 10/9/95
Analyst Signature Date

Data Entry Comments:

HPT was Daryl Haines

Bertrand Griffin II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2727

Analyst: QAM Instrument: H2O01 AL11066 Book # N/A

Method: LA-504-101 Rev/Mod D-O WHC-SD-WM-DP- 137, REV. 1

Worklist Comment: B-104, H2O DGST, 1149->1858, 1154->1859 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001858	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>10.1690</u>		g/L
		<u>1.0164g → .1000</u>								
95000088	B-104	3 SAMPLE	S95T001858	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.3</u>		mrads/hour
95000088	B-104	4 DUP	S95T001858	0 W	H2ODIG01	SOLID	<u>10.1690</u>	<u>10.2880</u>	<u>N/A</u>	g/L
		<u>1.0288g → .1000</u>								
95000088	B-104	5 DUP	S95T001858	0	DOSE-02	SOLID		<u>1.3</u>	<u>N/A</u>	mrads/hour
95000088	B-104	6 SAMPLE	S95T001859	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>10.5260</u>		g/L
		<u>1.0526g → .1000</u>								
95000088	B-104	7 SAMPLE	S95T001859	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.2</u>		mrads/hour
95000088	B-104	8 DUP	S95T001859	0 W	H2ODIG01	SOLID	<u>10.5260</u>	<u>10.4810</u>	<u>N/A</u>	g/L
		<u>1.0481g → .1000</u>								
95000088	B-104	9 DUP	S95T001859	0	DOSE-02	SOLID		<u>1.2</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

2727

QAM 10-6-95
Analyst Signature Date

Tom D. MEZ 10/9/95
Analyst Signature Date

Data Entry Comments:

HPT was Daryl Haines

Bertrand Guffe II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2732

Analyst:

QAM

Instrument:

H2001

AL1006

Book #

N/A

Method: LA-504-101 Rev/Mod

0-0

WHC-SD-WM-DP- 137 REV. 1

Worklist Comment: B-104, H2O DGST, 1155->1860 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000088	B-104	2 SAMPLE	S95T001860	0 W	H20D1G01	SOLID	<u>N/A</u>	<u>10.7900</u>		g/L
		<u>1.0740g → .100g</u>								
95000088	B-104	3 SAMPLE	S95T001860	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		mrads/hour
95000088	B-104	4 DUP	S95T001860	0 W	H20D1G01	SOLID	<u>10.7900</u>	<u>10.8860</u>	<u>N/A</u>	g/L
		<u>1.0886g → .100g</u>								
95000088	B-104	5 DUP	S95T001860	0	DOSE-02	SOLID		<u>1.2</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

2732

QAM Murphy 10-10-95
Analyst Signature Date

Tan D [Signature] 10/9/95
Analyst Signature Date

Data Entry Comments:

HPK was Daryl Haines

Bertrand Griff II 10-10-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2528

Analyst:

[Signature]

Instrument: H2001

8111066

Book #

N/A

Method: LA-504-101 Rev/Mod

D-O

Worklist Comment: B-104, H2O DGST, 1049->1819, 1055-1822 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u> g/L
95000085	B-104	2 SAMPLE	S95T001819 0 W <u>1.3239g → 100ml</u>		H2ODIG01	SOLID	<u>N/A</u>	<u>13.2390</u>	g/L
95000085	B-104	3 SAMPLE	S95T001819 0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>	mrads/hour
95000085	B-104	4 DUP	S95T001819 0 W <u>1.3900g → 100ml</u>		H2ODIG01	SOLID	<u>13.2390</u>	<u>13.9000</u>	<u>N/A</u> g/L
95000085	B-104	5 DUP	S95T001819 0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u> mrads/hour
95000085	B-104	6 SAMPLE	S95T001822 0 W <u>1.0611g → 100ml</u>		H2ODIG01	SOLID	<u>N/A</u>	<u>10.6110</u>	g/L
95000085	B-104	7 SAMPLE	S95T001822 0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>	mrads/hour
95000085	B-104	8 DUP	S95T001822 0 W <u>1.1431g → 100ml</u>		H2ODIG01	SOLID	<u>10.6110</u>	<u>11.4310</u>	<u>N/A</u> g/L
95000085	B-104	9 DUP	S95T001822 0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u> mrads/hour

Final page for worklist #

2528

[Signature] 9-26-95
Analyst Signature Date

[Signature] 9/27/95
Analyst Signature Date

Data Entry Comments:

HPT was Scott Chudrback

Bertrand Griffin II

9-28-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

190.1

LABCORE Data Entry Template for Worklist#

2547

Analyst:

JAM

Instrument: H2001

AL1066

Book #

N/A

Method: LA-504-101 Rev/Mod

D-O

Worklist Comment: B-104, H2O DGST, 1062->1825, 1067->1826 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<i>100</i>	<i>100</i>	<i>N/A</i>	g/L
95000085	B-104	2 SAMPLE	S95T001825	0 W	H20D1G01	SOLID	<i>N/A</i>	<i>13.3340</i>		g/L
			<i>1.3334 g → 100 ml</i>							
95000085	B-104	3 SAMPLE	S95T001825	0	DOSE-02	SOLID	<i>N/A</i>	<i>.5</i>		mrads/hour
95000085	B-104	4 DUP	S95T001825	0 W	H20D1G01	SOLID	<i>13.3340</i>	<i>13.3320</i>	<i>N/A</i>	g/L
			<i>1.3592 g → 100 ml</i>							
95000085	B-104	5 DUP	S95T001825	0	DOSE-02	SOLID		<i><.5</i>	<i>N/A</i>	mrads/hour
95000085	B-104	6 SAMPLE	S95T001826	0 W	H20D1G01	SOLID	<i>N/A</i>	<i>13.9120</i>		g/L
			<i>1.3912 g → 100 ml</i>							
95000085	B-104	7 SAMPLE	S95T001826	0	DOSE-02	SOLID	<i>N/A</i>	<i><.5</i>		mrads/hour
95000085	B-104	8 DUP	S95T001826	0 W	H20D1G01	SOLID	<i>13.9120</i>	<i>14.0960</i>	<i>N/A</i>	g/L
			<i>1.4096 g → 100 ml</i>							
95000085	B-104	9 DUP	S95T001826	0	DOSE-02	SOLID		<i><.5</i>	<i>N/A</i>	mrads/hour

Final page for worklist #

2547

JAM
Analyst Signature

9-26-95
Date

[Signature]
Analyst Signature

9/27/95
Date

Data Entry Comments:

HPT was Scott Chunderback

Bernard J. [Signature]

9-27-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

190.2

LABCORE Data Entry Template for Worklist#

2548

Analyst: ADP Instrument: H2O01 AL11066 Book # NA

Method: LA-504-101 Rev/Mod DO

Worklist Comment: B-104, H2O DGST, 1054->1823, 1061->1824 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2O01G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000085	B-104	2 SAMPLE	S95T001823	0 W	H2O01G01	SOLID	<u>N/A</u>	<u>10.3600</u>		g/L
		<u>1.036g → 100mL</u>								
95000085	B-104	3 SAMPLE	S95T001823	0	DOSE-02	SOLID	<u>N/A</u>	<u>2.5</u>		mrads/hour
95000085	B-104	4 DUP	S95T001823	0 W	H2O01G01	SOLID	<u>10.3600</u>	<u>10.8900</u>	<u>N/A</u>	g/L
		<u>1.089g → 100mL</u>								
95000085	B-104	5 DUP	S95T001823	0	DOSE-02	SOLID	<u>N/A</u>	<u>2.5</u>	<u>N/A</u>	mrads/hour
95000085	B-104	6 SAMPLE	S95T001824	0 W	H2O01G01	SOLID	<u>N/A</u>	<u>10.0600</u>		g/L
		<u>1.006g → 100mL</u>								
95000085	B-104	7 SAMPLE	S95T001824	0	DOSE-02	SOLID	<u>N/A</u>	<u>2.5</u>		mrads/hour
95000085	B-104	8 DUP	S95T001824	0 W	H2O01G01	SOLID	<u>10.0600</u>	<u>10.5000</u>	<u>N/A</u>	g/L
		<u>1.050g → 100mL</u>								
95000085	B-104	9 DUP	S95T001824	0	DOSE-02	SOLID	<u>N/A</u>	<u>2.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

2548

[Signature]
Analyst Signature

9-23-95
Date

[Signature]
Analyst Signature

9-23-95
Date

Data Entry Comments:

[Signature] 9-25-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2549

Analyst: ADP Instrument: H2O01 AL11066 Book # N/A

Method: LA-504-101 Rev/Mod DO

Worklist Comment: B-104, H2O DGST, 1068->1827, 1075->1828 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000085	B-104	2 SAMPLE	S95T001827	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>100.062</u>	<u>3.6200</u>	g/L
										<u>2H 92395</u>
95000085	B-104	3 SAMPLE	S95T001827	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.5</u>	<u>1.5</u>	mrad/hour
95000085	B-104	4 DUP	S95T001827	0 W	H2ODIG01	SOLID	<u>100.062</u>	<u>100.036</u>	<u>3.6200</u>	g/L
										<u>2H 92395</u>
95000085	B-104	5 DUP	S95T001827	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.5</u>	<u>N/A</u>	mrad/hour
95000085	B-104	6 SAMPLE	S95T001828	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>100.365</u>	<u>3.65</u>	g/L
										<u>2H 92395</u>
95000085	B-104	7 SAMPLE	S95T001828	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.5</u>	<u>N/A</u>	mrad/hour
95000085	B-104	8 DUP	S95T001828	0 W	H2ODIG01	SOLID	<u>100.365</u>	<u>100.294</u>	<u>3.65</u>	g/L
										<u>2H 92395</u>
95000085	B-104	9 DUP	S95T001828	0	DOSE-02	SOLID	<u>N/A</u>	<u>1.5</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

2549

Anthony Peruch 9-23-95
Analyst Signature Date

Bertrand Giff II 9-23-95
Analyst Signature Date

Data Entry Comments:

1827 & 1828 Used all of Sample To
Get Started. There was insufficient sample to run
H2O Digest successfully. This may be rerun if IC requires it.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

Bertrand Giff II

9-26-95 190.4

LABCORE Data Entry Template for Worklist#

2550

Analyst: EAL Instrument: H2001 AL11066 Book # N/A

Method: LA-504-101 Rev/Mod D-O

Worklist Comment: B-104, H2O DGST, 1076->1829, 1091-1830 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	100	100	N/A	g/L
95000085	B-104	2 SAMPLE	S95T001829	0 W	H2001G01	SOLID	N/A	10.0660		g/L
		1.0066 → .1L = 10.0660g/L								
95000085	B-104	3 SAMPLE	S95T001829	0	DOSE-02	SOLID	N/A	2	2	mrads/hr
95000085	B-104	4 DUP	S95T001829	0 W	H2001G01	SOLID	10.0660	10.1180	N/A	g/L
		1.0118 → .1L = 10.1180g/L								
95000085	B-104	5 DUP	S95T001829	0	DOSE-02	SOLID	N/A	2	N/A	mrads/hr
95000085	B-104	6 SAMPLE	S95T001830	0 W	H2001G01	SOLID	N/A	10.1100		g/L
		1.0110 → .1L = 10.1100g/L								
95000085	B-104	7 SAMPLE	S95T001830	0	DOSE-02	SOLID	N/A	2	2	mrads/hr
95000085	B-104	8 DUP	S95T001830	0 W	H2001G01	SOLID	10.1100	10.0790	N/A	g/L
		1.0079 → .1L = 10.0790g/L								
95000085	B-104	9 DUP	S95T001830	0	DOSE-02	SOLID	N/A	2	N/A	mrads/hr

Final page for worklist #

2550

[Signature]
Analyst Signature
Date 9/24/95
B. Wells
9/25/95

[Signature]
Analyst Signature
Date 9-25-95

Data Entry Comments:

HPT Bill Bishop OTT: 7mrads/hr
Bernard Griffin II 9-25-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2551

Analyst: EAL Instrument: H2001 AL11066 Book # N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: B-104, H2O DGST, 1092->1831, 1099->1832 SKM

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	100	100	N/A	g/L
95000085	B-104	2 SAMPLE	S95T001831	0 W	H2001G01	SOLID	N/A	10.2400		g/L
		1.0240 → .1L = 10.2400g/L								
95000085	B-104	3 SAMPLE	S95T001831	0	DOSE-02	SOLID	N/A	2		2 ⁴⁴ _{8/25/95} mrad/hour
95000085	B-104	4 DUP	S95T001831	0 W	H2001G01	SOLID	10.2400	10.3500	N/A	g/L
		1.0340 → .1L = 10.3400g/L								
95000085	B-104	5 DUP	S95T001831	0	DOSE-02	SOLID	N/A	2	N/A	mrad/hour
95000085	B-104	6 SAMPLE	S95T001832	0 W	H2001G01	SOLID	N/A	10.1700		g/L
		1.0170 → .1L = 10.1700g/L								
95000085	B-104	7 SAMPLE	S95T001832	0	DOSE-02	SOLID	N/A	2		2 ⁴⁴ _{8/25/95} mrad/hour
95000085	B-104	8 DUP	S95T001832	0 W	H2001G01	SOLID	10.1700	10.2810	N/A	g/L
		1.0281 → .1L = 10.2810g/L								
95000085	B-104	9 DUP	S95T001832	0	DOSE-02	SOLID	N/A	2	N/A	mrad/hour

Final page for worklist #

2551

[Signature]
Analyst Signature Date
*performed
9/24/95
S. Alder
9/25/95*

[Signature]
Analyst Signature Date
9-25-95

Data Entry Comments:

HPT: Bill Bishop OTT: 5 mrad/hr.
Bertrand Griffin II 9-25-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2552

Analyst:

QAM

Instrument: H2001

A11066 Book # N/A

Method: LA-504-101 Rev/Mod D-0

Worklist Comment: B-104, H2O DGST, 1100->1833, 1107->1847 SKM

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2001G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000085	B-104	2	SAMPLE	S95T001833	0	W	H2001G01	SOLID	<u>N/A</u>	<u>11.6480</u>		g/L
				<u>1.1648g</u>								
95000085	B-104	3	SAMPLE	S95T001833	0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000085	B-104	4	DUP	S95T001833	0	W	H2001G01	SOLID	<u>11.6480</u>	<u>11.4700</u>	<u>N/A</u>	g/L
				<u>1.1470g</u>								
95000085	B-104	5	DUP	S95T001833	0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour
95000088	B-104	6	SAMPLE	S95T001847	0	W	H2001G01	SOLID	<u>N/A</u>	<u>12.1440</u>		g/L
				<u>1.2144g</u>								
95000088	B-104	7	SAMPLE	S95T001847	0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000088	B-104	8	DUP	S95T001847	0	W	H2001G01	SOLID	<u>12.1440</u>	<u>12.4280</u>	<u>N/A</u>	g/L
				<u>1.2428g</u>								
95000088	B-104	9	DUP	S95T001847	0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

2552

QAM
Analyst Signature

Date

Raymond
Analyst Signature

Date

Data Entry Comments:

HPT was Scott Claiborne

Bertand Griffin II 9-28-95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

190.7

WHC-SD-WM-DP-137, REV. 1

INORGANIC ANALYSES

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LABCORE Data Entry Template for Worklist#

1812

Analyst: ADP Instrument: IC01 Book # SEN 9-C

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: B104 blank for IC. JMF

For Br only.
JMF 7/12/95

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			QIC-01 F-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 CL-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 BR-02	LIQUID		5.6	N/A	ug/mL
		1 BLNK			QIC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			QIC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 F-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 CL-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 BR-02	LIQUID	6.05	6.27	N/A	ug/mL
		2 STD			QIC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
		2 STD			QIC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL
95000085	B-104	3 SAMPLE	S95T001084	0	QIC-01 BR-02	LIQUID	N/A	5.604	6.042	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 F-02	LIQUID		N/A	N/A	ug/mL

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

1812

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	4 DUP	S95T001084	0	QIC-01 CL-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 BR-02	LIQUID	4.6	5.6	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001084	0	QIC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 F-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 CL-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 BR-02	LIQUID	100	101.7	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
95000085	B-104	5 SPK	S95T001084	0	QIC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL

Final page for worklist #

1812

Anthony Perento
Analyst Signature Date 7-12-95

R. B. [Signature]
Analyst Signature Date 7-14-95

Posted & verified 7/19/95 J. M. [Signature]

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

**WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX**

SAMPLE #: S95T001084 TEST CODE: @C-01 INSTRUMENT: IC01 WORK LIST #: 1812 BATCH ID:	ANALYST: PURINTON ANALYSIS DATE: 07/12/95 SAMPLE POINT: B104 SAMPLE PREP: LIQUID DIRECT
---	--

Result Units	µg/mL	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
STD								103.6%	
S95T001084		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
S95T001084-DUP		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Duplicate 1 RPD		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00
Duplicate 2 RPD		ERR	ERR	ERR	ERR	ERR	ERR	N/A	ERR
S95T001084-SPK								101.7%	

NARRATIVE:

Analyst Comments:

Chemist Comments:

Form Completed By: <i>[Signature]</i>	Date: 7/14/95
Chemist Approval: <i>[Signature]</i>	Date: 7/17/95

LAB LEADER INFO	
Method:	LA-533-106
Matrix:	LIQUID
Test Code:	6HC-01
Work List #:	1912
Batch #:	
Result Units	µg/mL
Spill Book Number:	6419C
Spill Sample #:	1
Prepared By:	RW STOKM
Prepared Date:	07/12/96
Chemist:	JAN FRYE
Analyte:	PURINTON
Analysis Date:	07/12/96
Time Complete:	02:34 PM
Instrument Code:	IC01
Revert:	
Sample Prep:	LIQUID DIRECT
Sample Point:	B104
Sample Type	STD
STANDARD	
SAMPLE 1	S94T001094
DUPLICATE 1	S94T001094-DUP
SAMPLE 2	
DUPLICATE 2	
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S94T001094-SPK
SPIKE DUPLICATE	



TECH INFO									
Blank Data (µg/mL)	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Standard Data (µg/mL)									627
Sample 1 Data (µg/mL)									
Sample 1 Dilution Factor									
Sample 1 Prep DF	1	1	1	1	1	1	1	1	1
Duplicate 1 Data (µg/mL)									
Duplicate 1 Dilution Factor									
Duplicate 1 Prep DF	1	1	1	1	1	1	1	1	1
Sample 2 Data (µg/mL)									
Sample 2 Dilution Factor									
Sample 2 Prep DF									
Duplicate 2 Data (µg/mL)									
Duplicate 2 Dilution Factor									
Duplicate 2 Prep DF									
Sample 3 Data (µg/mL)									
Sample 3 Dilution Factor									
Sample 3 Prep DF									
Duplicate 3 Data (µg/mL)									
Duplicate 3 Dilution Factor									
Duplicate 3 Prep DF									
Sample 4 Data (µg/mL)									
Sample 4 Dilution Factor									
Sample 4 Prep DF									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Dilution Factor									
Duplicate 4 Prep DF									
Spills + Sample 1 (µg/mL)									6.09E+00
Spills + Dup 1 (µg/mL)									
Spills Volume (mL)									1.00E-01
Total Volume (mL)									10.10
Std. Conc. (µg/mL)									606
Detection Limit									<.8
Matrix Detection Limit 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Spills Recovery = (Spills+Sample)/(Sample)*(Total Volume)/(Spills Vol.)*(Spills Std.)*(Sample DF)*100%
 Notes: (Per spill recovery within the sample error, is less than detection limit you do NOT without sample conc.)
 Duplicate Relative % Difference = ((Sample - Duplicate) / (Sample + Duplicate)) / 2 * 100%
 Limit Test Values are Calculated from the Detection Limit* Dilution Factor

v RESULTS v									
Standard % Recovery	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Sample 1 in µg/mL	<.00	<.00	<.00	<.00	<.00	<.00	103.9%	<.00	
Duplicate 1 in µg/mL	<.00	<.00	<.00	<.00	<.00	<.00	<.00	<.00	
Duplicate 1 RPD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sample 2 in µg/mL	<.00	<.00	<.00	<.00	<.00	<.00	<.00	<.00	
Duplicate 2 in µg/mL	<.00	<.00	<.00	<.00	<.00	<.00	<.00	<.00	
Duplicate 2 RPD	ERR	ERR	ERR	ERR	ERR	ERR	N/A	ERR	
Spills % Recovery							103.9%		

Date Entry by:	<i>[Signature]</i>	Date:	07/14/96
Approved by:	<i>[Signature]</i>	Date:	7/14/96

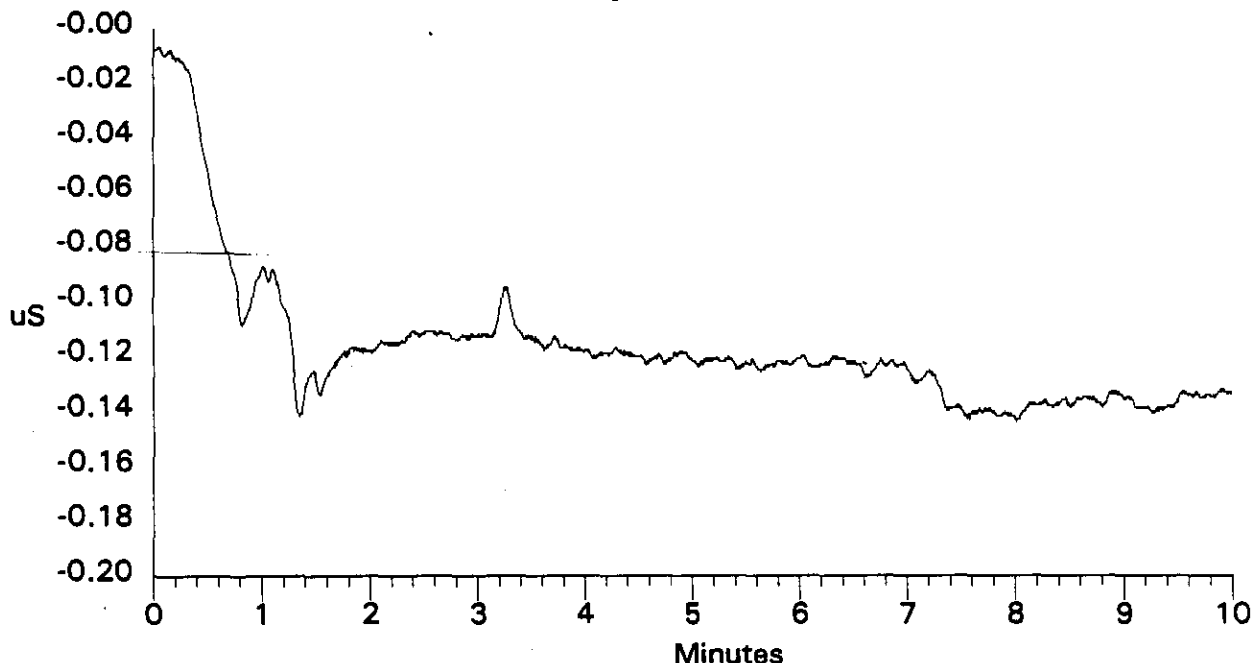
Sample Name: BLANK Date: 07/12/1995 13:10:58
 Data File : C:\DX\DATA\95071231.D01
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst : Column: *Anthony Puntero 7-12-95*

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95071231.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 196 TO 201.

Sample Name: STD 86N9-C

Date: 07/12/1995 13:34:46

Data File : C:\DX\DATA\95071231.D02

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

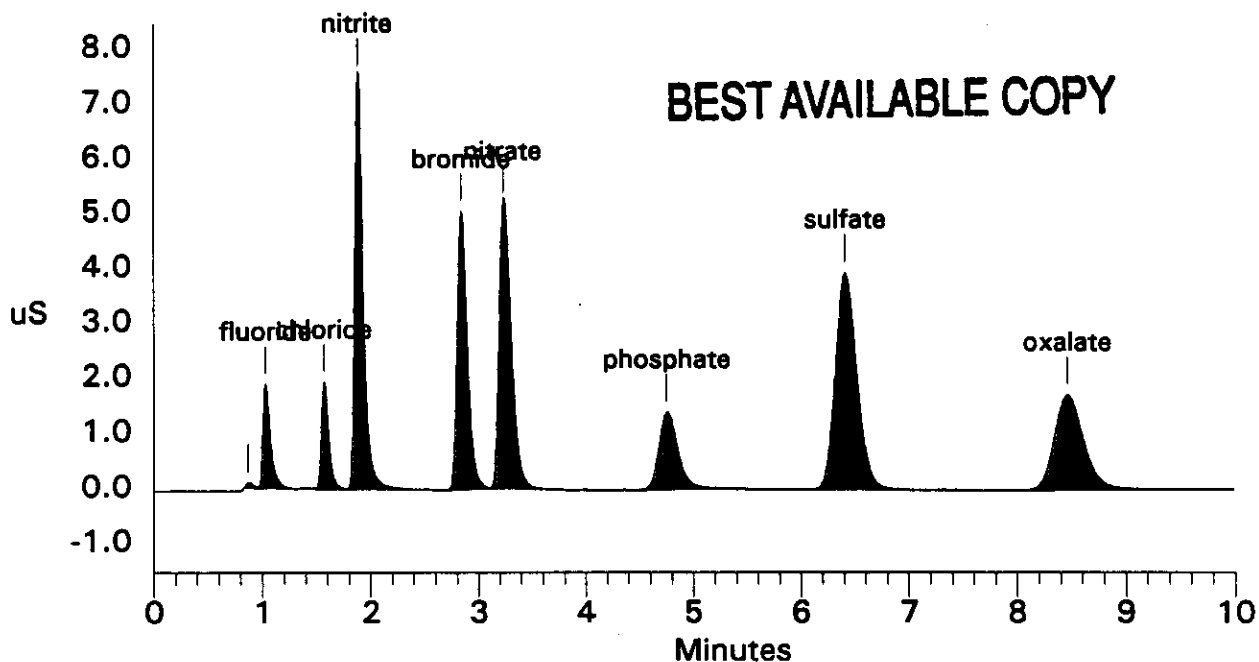
Analyst : SS.100-10 Column: *all in Perme*

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	87	371	2	
2	1.03	fluoride	57.13896.94	1870	9137	2	1.98
3	1.57	chloride	81.263/62.86	1923	8969	1	2.61
4	1.88	nitrite	535.299/50.81	7499	41248	1	1.62
5	2.84	bromide	627.346/103.69	5048	33024	1	1.43
6	3.23	nitrate	632.864/102.41	5181	41319	1	0.94
7	4.75	phosphate	523.17395.47	1384	16918	1	-1.04
8	6.41	sulfate	626.30699.73	3946	54467	1	-1.84
9	8.46	oxalate	529.62799.55	1716	32060	1	-1.63
Totals			3613.016	28655	237514		

File: 95071231.D02 Sample: STD 86N9-C



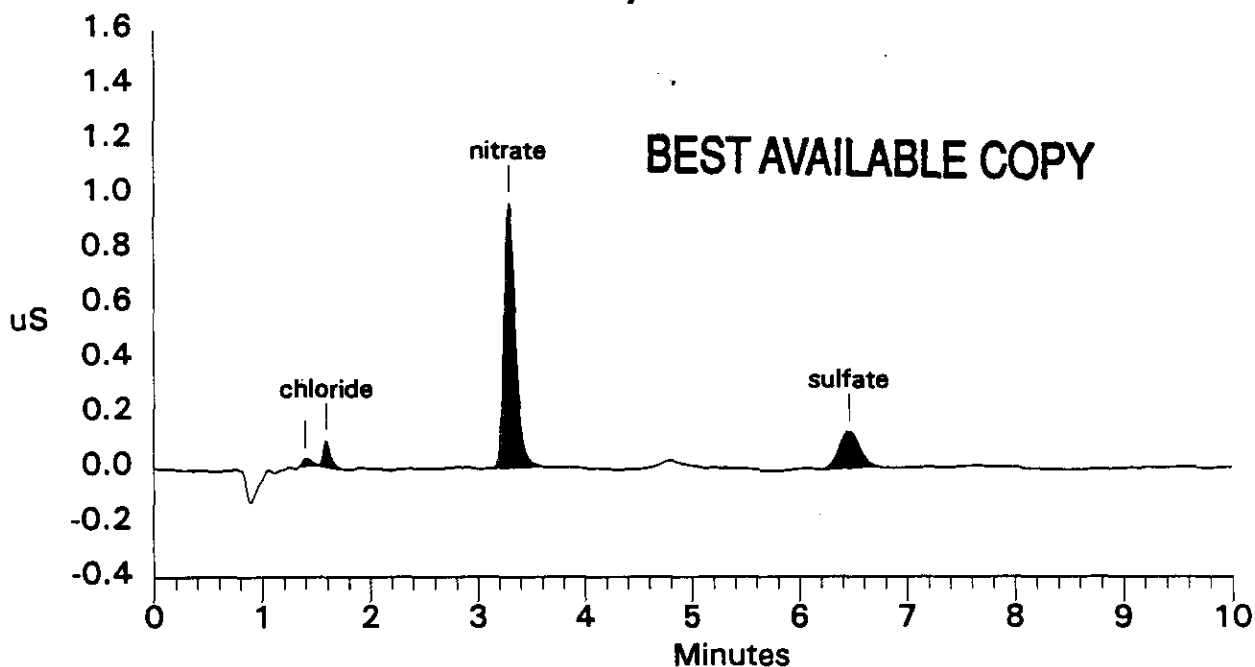
Sample Name: S95T001084 Date: 07/12/1995 13:48:05
 Data File : C:\DX\DATA\95071231.D03
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : Column: SS: 100-10

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 11 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.59	chloride	0.432	94	431	1	3.92
3	3.29	nitrate	14.764	968	7181	1	2.81
4	6.46	sulfate	4.338	133	1771	1	-1.07
Totals			19.534	1195	9382		

File: 95071231.D03 Sample: S95T001084



Sample Name: S95T001084 Date: 07/12/1995 13:59:46
Data File : C:\DX\DATA\95071231.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
Analyst : Column:

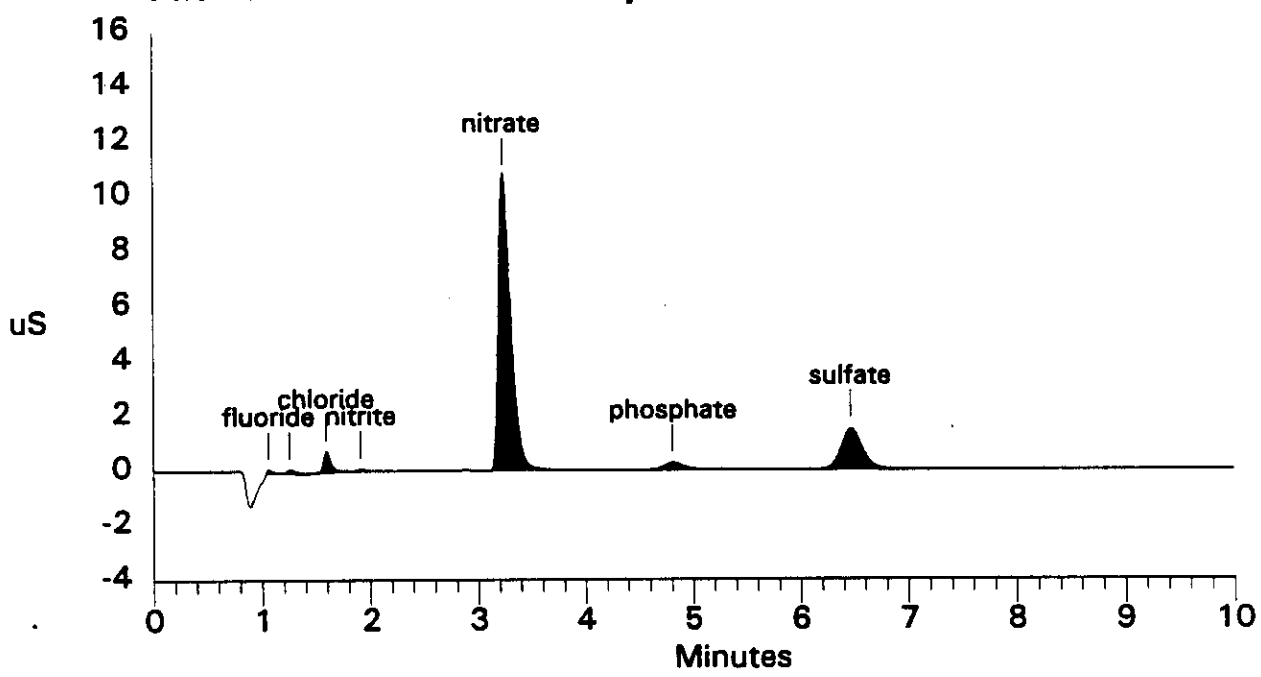
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	fluoride	0.041	131	369	1	4.95
2	1.25		0.000	131	670	1	
3	1.59	chloride	0.346	781	3835	1	3.92
4	1.91	nitrite	0.279	85	413	1	3.24
5	3.23	nitrate	12.604	10726	86315	1	0.94
6	4.81	phosphate	1.190	258	3095	1	0.21
7	6.46	sulfate	2.474	1488	20466	1	-1.07
Totals			16.933	13600	115163		

File: 95071231.D04 Sample: S95T001084



```

=====
Sample Name: S95T001084   DUP                               Date: 07/12/1995 14:11:45
Data File  : C:\DX\DATA\95071241.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5                          Detector: CDM-1
Analyst    :                               Column:
=====
  
```

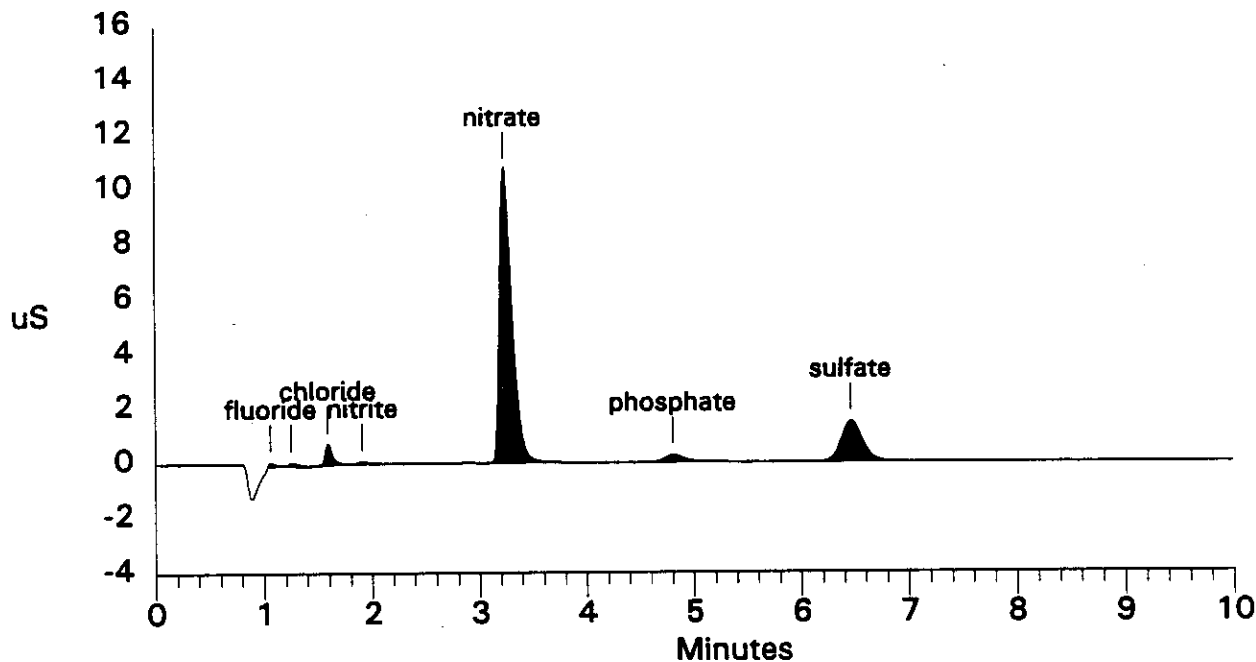
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1 3000 5Hz 0.00 10.00          200
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	fluoride	0.046	145	442	1	4.95
2	1.25		0.000	133	678	1	
3	1.59	chloride	0.342	780	3788	1	3.92
4	1.91	nitrite	0.279	85	411	1	3.24
5	3.23	nitrate	12.642	10686	86590	1	0.94
6	4.80	phosphate	1.155	256	2976	1	0.00
7	6.46	sulfate	2.456	1480	20304	1	-1.07
Totals			16.919	13564	115188		

File: 95071241.D05 Sample: S95T001084 DUP



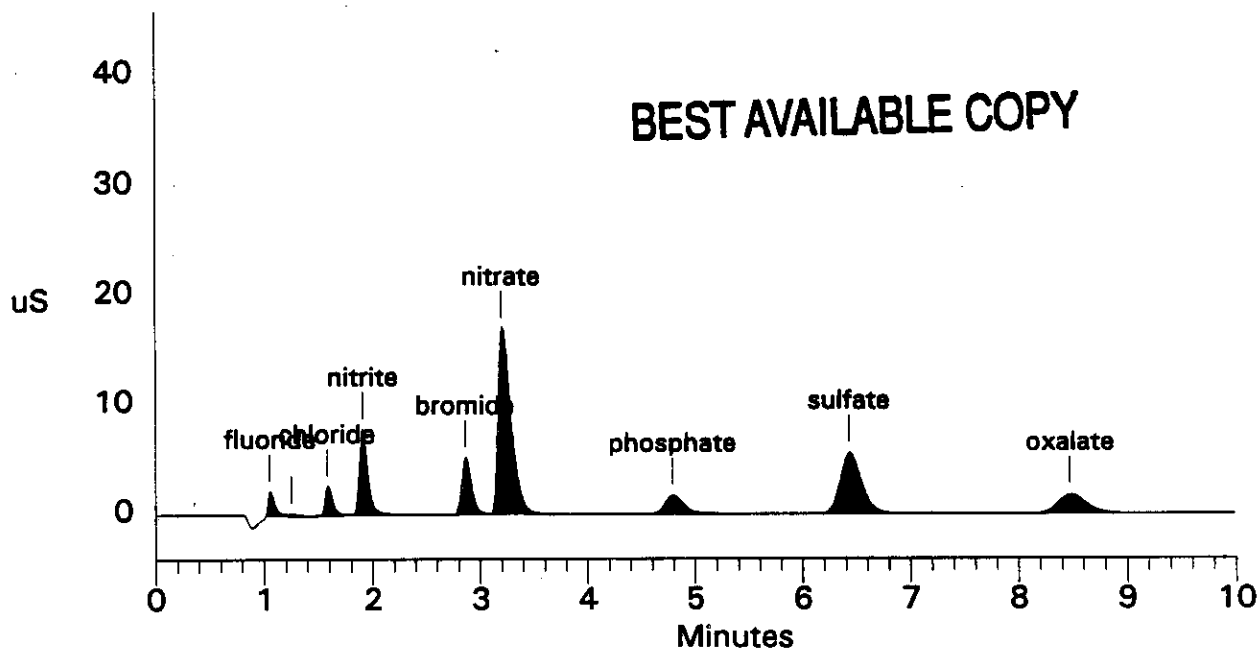
Sample Name: S95T001084 SPK Date: 07/12/1995 14:24:02
 Data File : C:\DX\DATA\95071241.D06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : Column: SPK 86N9-C .100m

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.05	fluoride	0.602	2161	9755	3	3.96
2	1.25		0.000	169	972	4	
3	1.58	chloride	1.192	2625	13342	1	3.27
4	1.91	nitrite	5.410	7764	42143	1	3.24
5	2.86	bromide	6.092	5146	32350	1	2.14
6	3.20	nitrate	20.196	16870	141913	1	0.00
7	4.79	phosphate	6.181	1689	20433	1	-0.21
8	6.43	sulfate	8.498	5543	75749	1	-1.53
9	8.47	oxalate	5.090	1711	31076	1	-1.51
Totals			53.261	43679	367733		

File: 95071241.D06 Sample: S95T001084 SPK



LABCORE Data Entry Template for Worklist# 1580

Analyst: EE Instrument: IC01 IC02 Book # 86N9-A

Method: LA-533-105 Rev/Mod C-2

Worklist Comment: Run IC for Br only. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			0IC-01 F-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 CL-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 BR-02	LIQUID		< 1	N/A	ug/mL
		1 BLNK			0IC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
		1 BLNK			0IC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 F-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 CL-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 NO2-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 BR-02	LIQUID	6.05	618.7	N/A	ug/mL
		2 STD			0IC-01 NO3-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 PO4-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 SO4-02	LIQUID		N/A	N/A	ug/mL
		2 STD			0IC-01 OXALATE2	LIQUID		N/A	N/A	ug/mL
95000085	B-104	3 SAMPLE	S95T001045	0	0IC-01 BR-02	LIQUID	N/A	2.60 ^{E4}	1.33e2	ug/mL
95000085	B-104	4 DUP	S95T001045	0	0IC-01 F-02	LIQUID	N/A	N/A	N/A	ug/mL

Data Entry Comments:

LMCS 86N9-A .100 mL - 10 mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1580

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	4 DUP	S95T001045	0	QIC-01 CL-02	LIQUID	N/A	N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 NO2-02	LIQUID	N/A	N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 BR-02	LIQUID	2.60	2.62	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 NO3-02	LIQUID	N/A	N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 PO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 SO4-02	LIQUID	N/A	N/A	N/A	ug/mL
95000085	B-104	4 DUP	S95T001045	0	QIC-01 OXALATE2	LIQUID	N/A	N/A	N/A	ug/mL

Final page for worklist # 1580

EW. Cole 6-16-95
Analyst Signature Date

PAE 6-16-95
Analyst Signature Date

Reviewed & posted 6/16/95
Jared M. Frye

Data Entry Comments:

The < for the blank was entered as <1
it should have been entered as <1.21-JMF
6/16/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

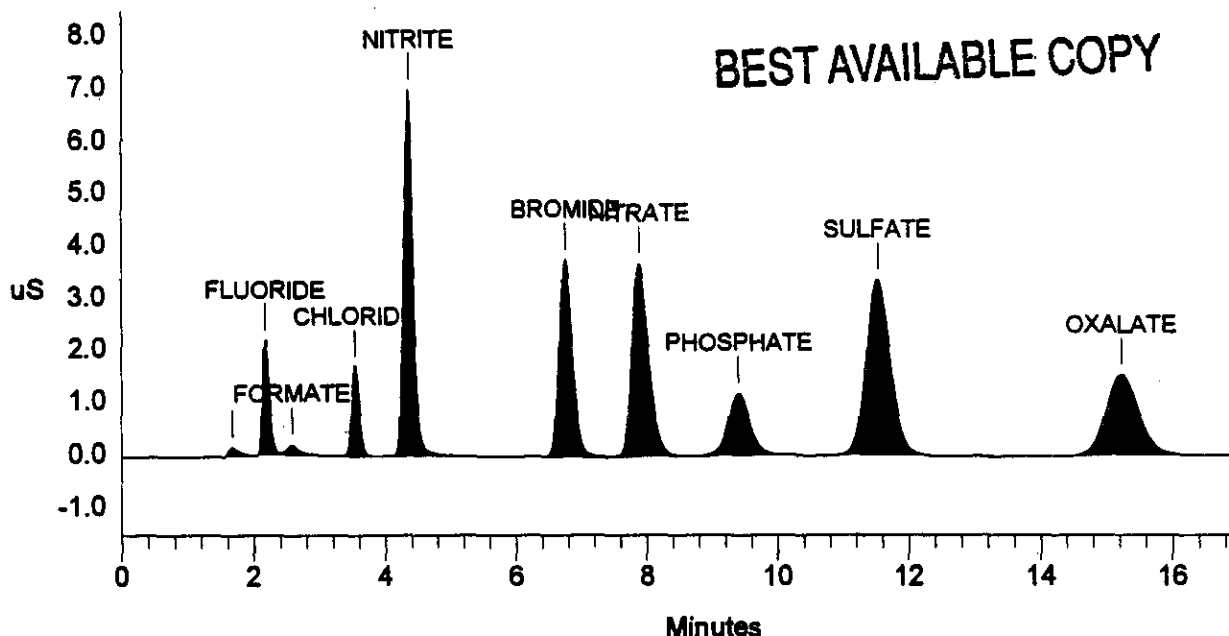
Sample Name: 86N9-A STD Date: 06/16/1995 07:12:29
 Data File : C:\DX\DATA\95061671.D02
 Method : C:\DX\METHOD\AS12A.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : Ed Colvin Column: AG4A-SC, AS4A-SC, SRS

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 101 5100 5Hz 0.00 17.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.67		0.000	161	1756	1	
2	2.18	FLUORIDE	54.357	2170	15527	2	-0.46
3	2.58	FORMATE	5.235	185	2117	2	-1.90
4	3.54	CHLORIDE	74.409	1712	14194	1	-1.67
5	4.36	NITRITE	519.429	6986	70319	1	-0.23
6	6.76	BROMIDE	618.650	3767	53725	1	-2.17
7	7.89	NITRATE	579.375	3679	64183	1	-2.11
8	9.41	PHOSPHATE	505.568	1185	27382	1	0.75
9	11.54	SULFATE	587.093	3359	85775	1	3.04
10	15.23	OXALATE	505.252	1538	52320	1	2.77
Totals			3449.369	24744	387298		

File: 95061671.D02 Sample: 86N9-A STD



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 204 TO 207.

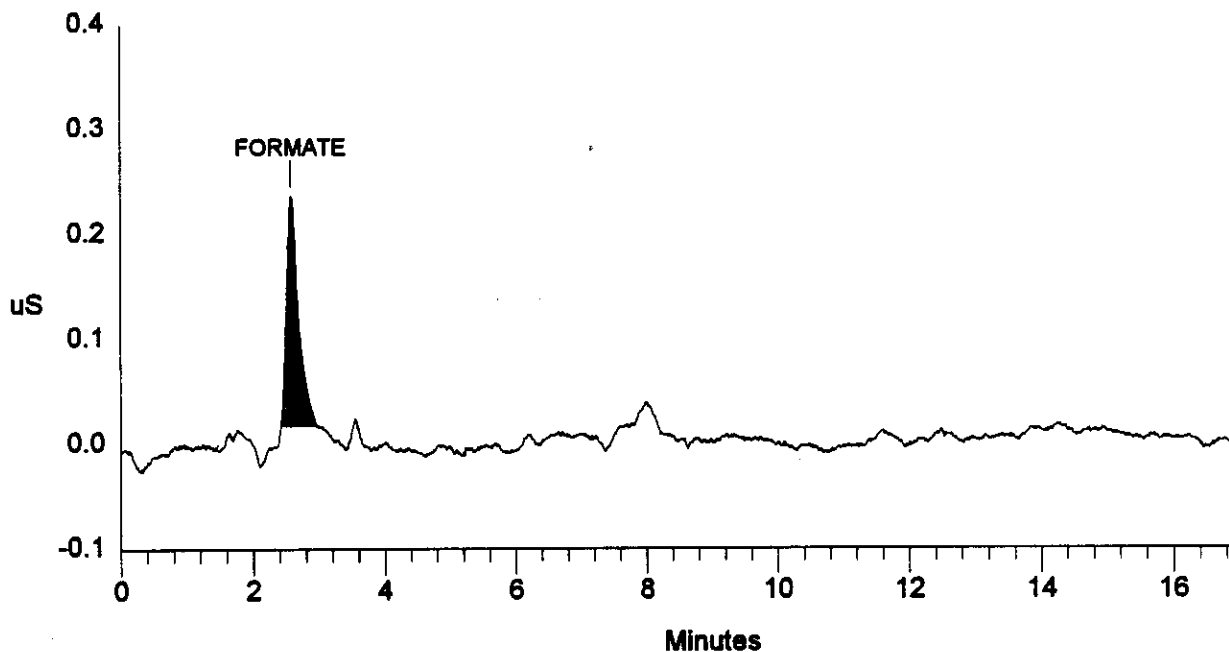
Sample Name: BLANK Date: 06/16/1995 06:54:22
 Data File : C:\DX\DATA\95061671.D01
 Method : C:\DX\METHOD\AS12A.MET
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst : Ed Colvin Column: AG4A-SC, AS4A-SC, SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	5100	5Hz	0.00	17.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	2.58	FORMATE	0.090	217	2730	1	-1.90
Totals			0.090	217	2730		

File: 95061671.D01 Sample: BLANK



Sample Name: S95T001045 Date: 06/16/1995 08:10:11
Data File : C:\DX\DATA\95061671.D05
Method : C:\DX\METHOD\AS12A.MET
ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
Analyst : Ed Colvin Column: AG4A-SC, AS4A-SC, SRS

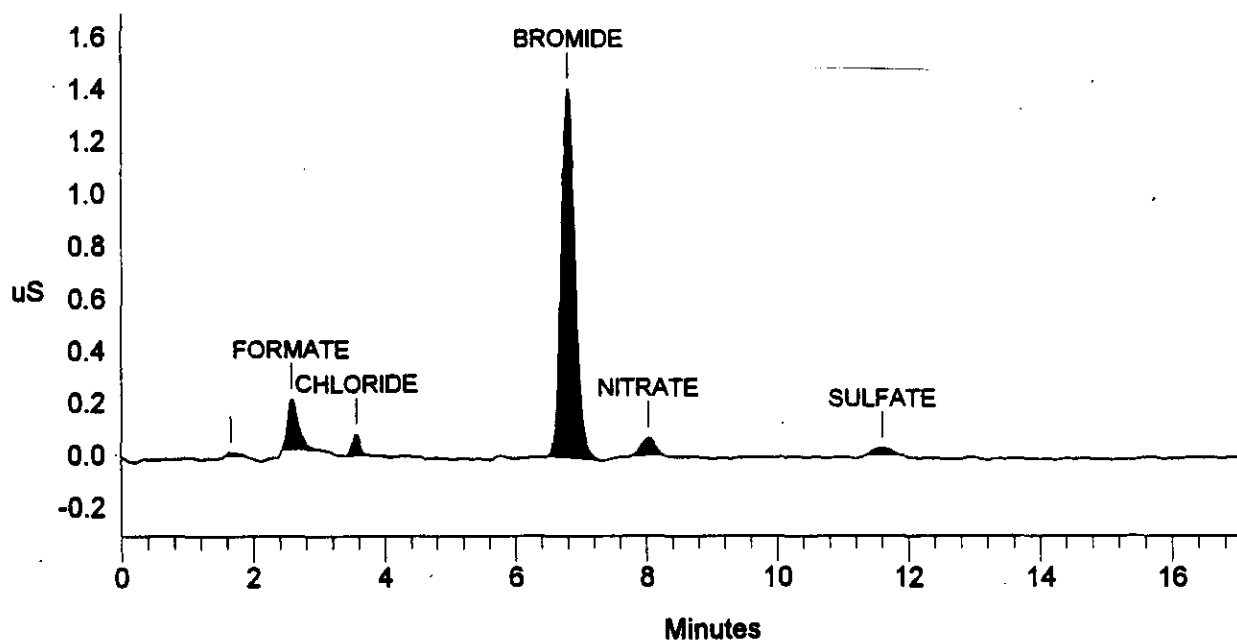
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 10201 5100 5Hz 0.00 17.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	2.58	FORMATE	523.015	189	2108	1	-1.90
3	3.57	CHLORIDE	356.575	80	649	1	-0.83
4	6.81	BROMIDE	25962.125	1409	20505	1	-1.45
5	8.03	NITRATE	3033.874	69	967	1	-0.37
6	11.61	SULFATE	2595.039	26	463	1	3.66
Totals			32470.628	1774	24691		

File: 95061671.D05 Sample: S95T001045



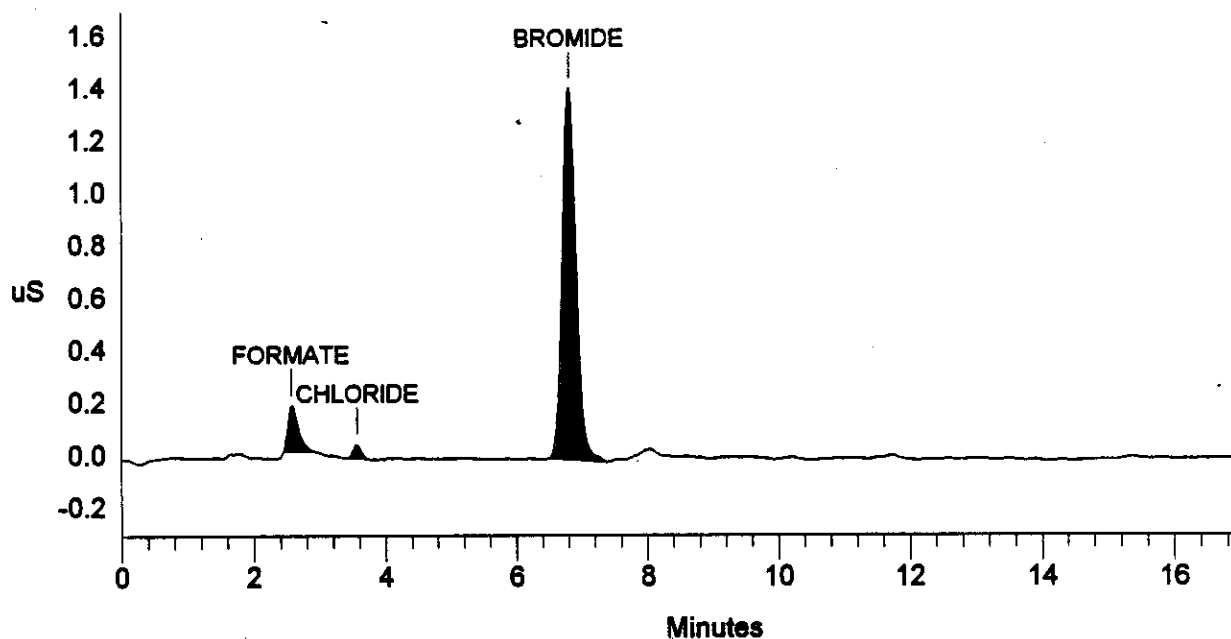
Sample Name: S95T001045 Date: 06/16/1995 07:51:37
 Data File : C:\DX\DATA\95061671.D04
 Method : C:\DX\METHOD\AS12A.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Ed Colvin Column: AG4A-SC, AS4A-SC, SRS

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 10201 5100 5Hz 0.00 17.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	2.57	FORMATE	402.073	174	1916	1	-2.28
2	3.37	CHLORIDE	251.795	54	453	1	-0.83
3	6.81	BROMIDE	26247.889	1414	20762	1	-1.45
Totals			26901.757	1642	23132		

File: 95061671.D04 Sample: S95T001045



LABCORE Data Entry Template for Worklist#

2596

Analyst: DCD Instrument: IC01 IC01 Book # 2596

Method: LA-533-105 Rev/Mod D-1 WHC-SD-WM-DP-131, REV. 1

Worklist Comment: B-104 water digests, especially need Br. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	CCB				QIC-QC F-QC	QC		5.062	N/A	ug/mL
		1	CCB				QIC-QC CL-QC	QC		5.083	N/A	ug/mL
		1	CCB				QIC-QC NO2-QC	QC		5.047	N/A	ug/mL
		1	CCB				QIC-QC BR-QC	QC		5.632	N/A	ug/mL
		1	CCB				QIC-QC NO3-QC	QC		5.699	N/A	ug/mL
		1	CCB				QIC-QC PO4-QC	QC		5.596	N/A	ug/mL
		1	CCB				QIC-QC SO4-QC	QC		5.628	N/A	ug/mL
		1	CCB				QIC-QC OXALATQC	QC		5.496	N/A	ug/mL
		2	CCV				QIC-QC F-QC	QC		61.9	N/A	ug/mL
		2	CCV				QIC-QC CL-QC	QC		76.8	N/A	ug/mL
		2	CCV				QIC-QC NO2-QC	QC		513.5	N/A	ug/mL
		2	CCV				QIC-QC BR-QC	QC		559.5	N/A	ug/mL
		2	CCV				QIC-QC NO3-QC	QC		608.3	N/A	ug/mL
		2	CCV				QIC-QC PO4-QC	QC		536.4	N/A	ug/mL
		2	CCV				QIC-QC SO4-QC	QC		620.9	N/A	ug/mL
		2	CCV				QIC-QC OXALATQC	QC		566.2	N/A	ug/mL
		3	BLNK-PREP				QIC-01 F-02	SOLID		5.002	N/A	ug/g
		3	BLNK-PREP				QIC-01 CL-02	SOLID		5.083	N/A	ug/g

Data Entry Comments:

One of the dilutions for the duplicate was run with sample 555T001824 on 10/13/95. The standard it was actually run with was WBL-2554.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.1

There is matrix interference with Fluorescing high RPD. G.M.F.

LABCORE Data Entry Template for Worklist#

2596

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3 BLNK-PREP			QIC-01 NO2-02	SOLID		2.577	N/A	ug/g
		3 BLNK-PREP			QIC-01 BR-02	SOLID		2.632	N/A	ug/g
		3 BLNK-PREP			QIC-01 NO3-02	SOLID		2.699	N/A	ug/g
		3 BLNK-PREP			QIC-01 PO4-02	SOLID		2.576	N/A	ug/g
		3 BLNK-PREP			QIC-01 SO4-02	SOLID		2.678	N/A	ug/g
		3 BLNK-PREP			QIC-01 OXALATE2	SOLID		2.496	N/A	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 F-02	SOLID	N/A	4.66e3	6.04e3	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 CL-02	SOLID	N/A	1.61e3	8.09e2	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 NO2-02	SOLID	N/A	1.69e3	5.81e2	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 BR-02	SOLID	N/A	2.671e3	6.71e2	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 NO3-02	SOLID	N/A	2.85e5	6.81e3	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 PO4-02	SOLID	N/A	2.12e4	5.81e3	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 SO4-02	SOLID	N/A	1.94e4	4.61e3	ug/g
95000085	B-104	4 SAMPLE	S95T001823	0 W	QIC-01 OXALATE2	SOLID	N/A	5.27e2	5.27e2	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 F-02	SOLID	4.66e3	3.56e3	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 CL-02	SOLID	1.61e3	1.57e3	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 NO2-02	SOLID	1.69e3	1.66e3	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 BR-02	SOLID	2.671e3	2.671e3	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 NO3-02	SOLID	2.85e5	3.11e5	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 PO4-02	SOLID	2.12e4	2.01e4	N/A	ug/g
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 SO4-02	SOLID	1.94e4	1.89e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.2

LABCORE Data Entry Template for Worklist#

2596

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 DUP	S95T001823	0 W	QIC-01 OXALATE2	SOLID	25.2762	25.222	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 F-02	SOLID		96.6	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 CL-02	SOLID		105.8	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 NO2-02	SOLID		102.6	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 BR-02	SOLID		100.0	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 NO3-02	SOLID		102.6	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 PO4-02	SOLID		102.8	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 SO4-02	SOLID		102.9	N/A	ug/g
95000085	B-104	6 SPK	S95T001823	0 W	QIC-01 OXALATE2	SOLID		103.1	N/A	ug/g

Final page for worklist #

2596

See attached

Originally signed by David Burdick
Analyst Signature Date 10/3/95

Analyst Signature Date

Edited 10/11/95, James M. Faye

Verified 10/18/95 J.M. Faye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.3

LABCORE Data Entry Template for Worklist#

2596

Analyst: DCD

Instrument: IC01

Book # 106N9-D

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 water digests, especially need Br. JMF

*do only one spiked sample
I will change the worklist*
Therese

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				QIC-01 F-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 CL-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 NO2-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 BR-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 NO3-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 PO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 SO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				QIC-01 OXALATE2	SOLID			N/A	ug/g
		2	STD				QIC-01 F-02	SOLID			N/A	ug/g
		2	STD				QIC-01 CL-02	SOLID			N/A	ug/g
		2	STD				QIC-01 NO2-02	SOLID			N/A	ug/g
		2	STD				QIC-01 BR-02	SOLID			N/A	ug/g
		2	STD				QIC-01 NO3-02	SOLID			N/A	ug/g
		2	STD				QIC-01 PO4-02	SOLID			N/A	ug/g
		2	STD				QIC-01 SO4-02	SOLID			N/A	ug/g
		2	STD				QIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3	SAMPLE	S95T001823	0	W	QIC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	3	SAMPLE	S95T001823	0	W	QIC-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

SAMPLE

DUPLICATE

S95T001823

10.3600 g/L

10.8900

S95T001824

10.0600

10.5000

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.4

LABCORE Data Entry Template for Worklist#

2596

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001823	0 W	2IC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001823	0 W	2IC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001823	0 W	2IC-01 SO4-02	SOLID			N/A	ug/g

Data Entry Comments:	Sample	D.F.	SAMPLE SIZE
	S95T1823 SAM & DUP	101	100-10
	S95T1823 SAM & DUP	11	1-10
	S95T1823 SPIKE	101	100-9.9 + .100 spike
	S95T1823 SPIKE	11	1-9.9 + .100 spike

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

207.5

LABCORE Data Entry Template for Worklist#

2596

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	S95T001823	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	F-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	CL-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	NO2-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	BR-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	NO3-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	PO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	SO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001824	0 W	QIC-01	OXALATE2	SOLID	N/A		ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001824	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	NO3-02	SOLID		N/A	ug/g

Data Entry Comments:

SAMPLE	D.F.	SAMPLE SIZE
S95T1824	SAM & DUP 101	100 - 10
S95T1824	SAM & DUP 21	500 - 10

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.6

LABCORE Data Entry Template for Worklist#

2596

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001824	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist # 2596

David C. Dunham 10-3-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Allquot Code.

207.7

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001823
 TEST CODE: @lc-01
 INSTRUMENT: IC-01
 WORK LIST #: 2596
 BATCH ID:

ANALYST: David Dunham
 ANALYSIS DATE: 10/02/95
 SAMPLE POINT: B-104
 SAMPLE PREP: water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9D		104.9%	97.2%	97.3%	99.1%	98.2%	98.4%	97.3%	99.3%
S95T001823		4.66E+03	1.61E+03	1.69E+03	2.85E+05	2.12E+04	1.94E+04	<671.04	<526.64
S95T001823dup		3.56E+03	1.57E+03	1.66E+03	3.00E+05	2.01E+04	1.89E+04	<638.38	<501.01
Duplicate 1 RPD		26.7%	2.9%	1.6%	5.1%	5.4%	3.1%	N/A	N/A
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001823apk		96.6%	105.8%	102.6%	112.8%	101.8%	102.9%		103.1%

NARRATIVE:**Analyst Comments:**

*use this
value
for*

Chemist Comments:

*Dr.
G.M.F.*

Form Completed By: *[Signature]* Date: 10/12/95
 Chemist Approval: *[Signature]* Date: 10/12/95

207.8

W/C-SD-WM-DP- / 37, REV. 1

LAB LEADER INFO	
Subnet:	10-43-106-1
Location:	solid
Test Code:	QC-01
Work List #:	2896
Batch #:	
Blank (Units)	
(Units or (µg/mL)):	µg/g
Spikes Book Number:	100480
Spikes Sample #:	1
Prepared By:	Jean Frye
Prepared Date:	10/12/96
Chemist:	Jean Frye
Analytic:	David Dunham
Analyte Date:	10/02/96
Time Complete:	
Instrument Code:	IC-01
Reagent:	9
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	106480
SAMPLE 1	8087001823amp
DUPPLICATE 1	8087001823amp
SAMPLE 2	
DUPPLICATE 2	
SAMPLE 3	
DUPPLICATE 3	
SAMPLE 4	
DUPPLICATE 4	
SERVE	8087001823amp
SERVE DUPLICATE	



TECH INFO

	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.082	<.083	<.447	<.898	<.898	<.878	<.832	<.498

Standard Data (µg/mL)	61.9	76.8	619.5	608.2	536.4	620.9	568.6	618.2
-----------------------	------	------	-------	-------	-------	-------	-------	-------

Sample 1 Data (µg/mL)	4.83E+01	1.87E+01	1.77E+01	2.98E+03	2.20E+02	2.02E+02	<.832	<.498
Sample 1 Duplication Factor	101	101	11	101	101	101	11	11
Sample 1 Prep DF	10.36	10.36	10.36	10.36	10.36	10.36	10.36	10.36
Duplicate 1 Data (µg/mL)	3.88E+01	1.71E+01	1.81E+01	3.28E+03	2.19E+02	2.04E+02	<.832	<.498
Duplicate 1 Duplication Factor	101	101	11	101	101	101	11	11
Duplicate 1 Prep DF	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89

Sample 2 Data (µg/mL)								
Sample 2 Duplication Factor								
Sample 2 Prep DF								
Duplicate 2 Data (µg/mL)								
Duplicate 2 Duplication Factor								
Duplicate 2 Prep DF								

Sample 3 Data (µg/mL)								
Sample 3 Duplication Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Duplication Factor								
Duplicate 3 Prep DF								

Sample 4 Data (µg/mL)								
Sample 4 Duplication Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Duplication Factor								
Duplicate 4 Prep DF								

Spikes + Sample 1 (µg/mL)	1.06E+02	1.00E+02	7.22E+01	3.64E+03	7.78E+02	8.81E+02		5.38E+01
Spikes + Dup 1 (µg/mL)								

Spikes Volume (mL)	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01	1.00E+01
Total Volume (mL)	10.10	10.10	11.00	10.10	10.10	10.10	11.00	11.00
Std. Conc. (µg/mL)	89	79	634	616	646	631	678	620
Detection Limit	0.062	0.083	0.647	0.699	0.886	0.878	0.832	0.498
Matrix Detection Limit 1	6.04E+02	8.08E+02	6.81E+02	6.81E+03	6.81E+03	6.81E+03	6.71E+02	6.27E+02
Matrix Detection Limit 2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spikes Recovery = (Spikes+Sample-Duplicate)/(Total Volume)(µg/mL) Vol./Spikes Std./Sample DF*100%
 Note: For spikes recovery when the sample concs. in two times detection limit you do NOT subtract sample concs.)
 Duplicate Standard % Difference = (Sample - Duplicate) / (Sample + Duplicate) / 2 * 100%
 Note: When Values are Calculated from the Duplication Limit/Duplicate Factor

V RESULTS V		Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	97.3%								
Sample 1 to 100%	4.83E+01	1.87E+01	1.88E+01	2.88E+03	2.12E+04	1.94E+04	<671.04	<632.34	
Duplicate 1 to 100%	3.88E+01	1.67E+01	1.66E+01	3.00E+03	2.07E+04	1.88E+04	<633.38	<601.01	
Duplicate 1 to 100%	26.7%	2.7%	1.5%	6.1%	6.4%	3.1%	N/A	N/A	
Duplicate 1 to 100%	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Duplicate 1 to 100%	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Duplicate 1 to 100%	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Spikes % Recovery	84.8%	100.8%	102.6%	112.8%	101.8%	102.8%		103.1%	

Date Entry by: Jean Frye Date: 10/12/96

Approved by: Jean Frye Date: 10/12/96

Form DOWELMHS Rev. 1.1

**WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET**

ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001823

TEST CODE: @ic-01

INSTRUMENT: IC-01

WORK LIST #: 2596

BATCH ID:

ANALYST:

David Dunham

ANALYSIS DATE:

10/02/95

SAMPLE POINT:

B-104

SAMPLE PREP:

water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9D		104.9%	97.2%	97.3%	99.1%	98.2%	98.4%	97.3%	99.3%
S95T001823		4.66E+03	1.61E+03	1.69E+03	2.85E+06	2.12E+04	1.94E+04	<6161.39	<526.64
S95T001823dup		3.56E+03	1.57E+03	1.66E+03	3.00E+06	2.01E+04	1.89E+04	<5861.52	<501.01
Duplicate 1 RPD		26.7%	2.9%	1.6%	5.1%	5.4%	3.1%	N/A	N/A
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001823apk		96.6%	105.8%	102.6%	112.8%	101.8%	102.9%	100.0%	103.1%

NARRATIVE:

Analyst Comments:

Chemist Comments:

Do not use
this less than
for Br.
JMF
10/12/95

Form Completed By:

Date:

Chemist Approval:

Date:

207.10

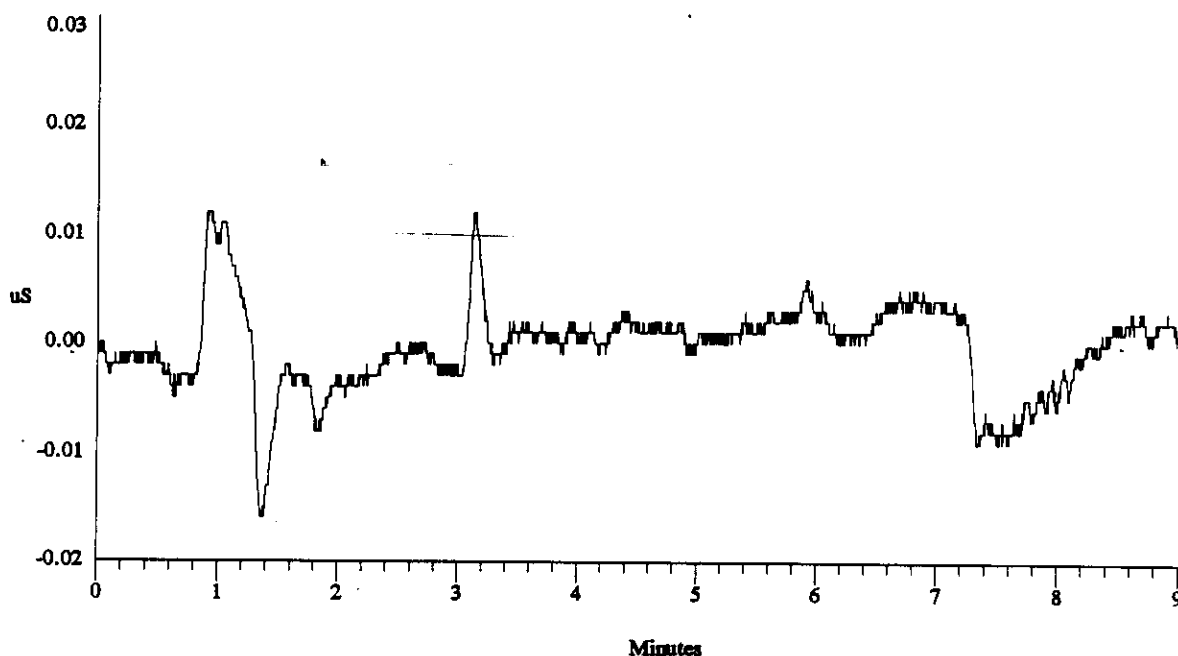
Sample Name: BLANK Date: 10/02/1995 02:22:47
 Data File : C:\DX\DATA\95100201.D01
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst *David C. Dunham* Column: AG4A/AS4A anion column/SRS

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 2700 5Hz 0.00 9.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95100201.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 207.12 TO 207.20

WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: PREP-BLNK                      Date: 10/02/1995 06:06:22
Data File  : C:\DX\DATA\95100201.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 7      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

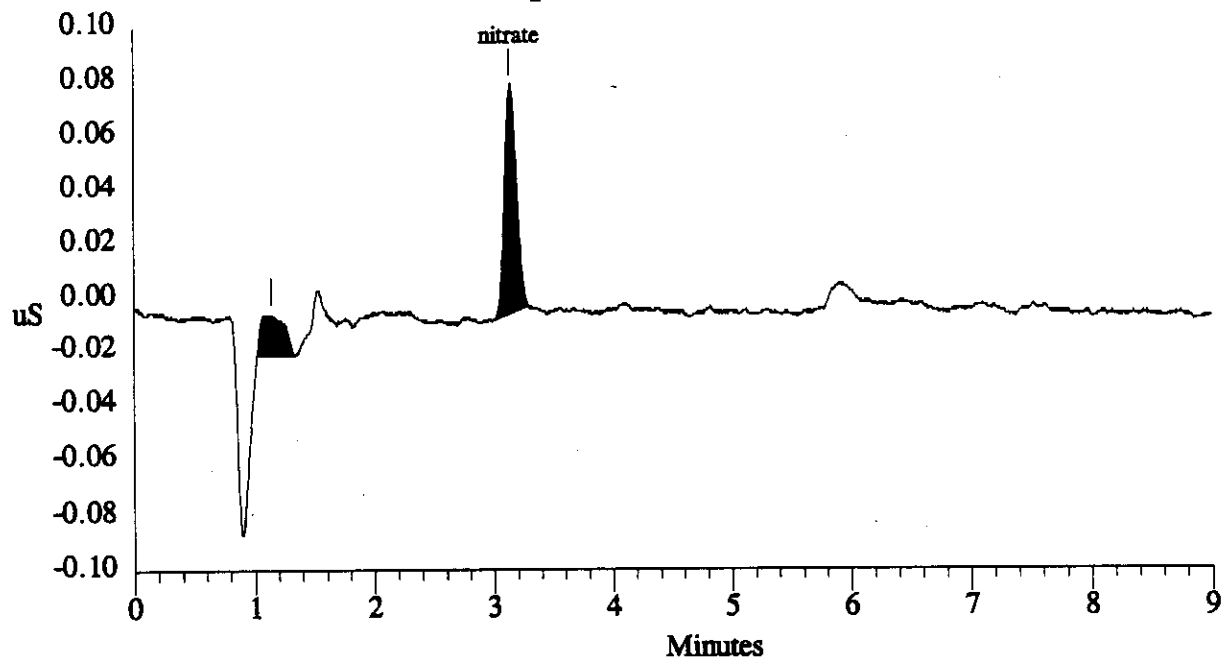
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    2700  5Hz   0.00  9.00         200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.14		0.000	15	208	1	
2	3.14	nitrate	1.273	84	595	1	1.95
Totals			1.273	99	803		

File: 95100201.D07 Sample: PREP-BLNK



WHC-SD-WM-DP-137, REV. 1

Sample Name: 106N9-D

Date: 10/02/1995 02:53:50

Data File : C:\DX\DATA\95100201.D02

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

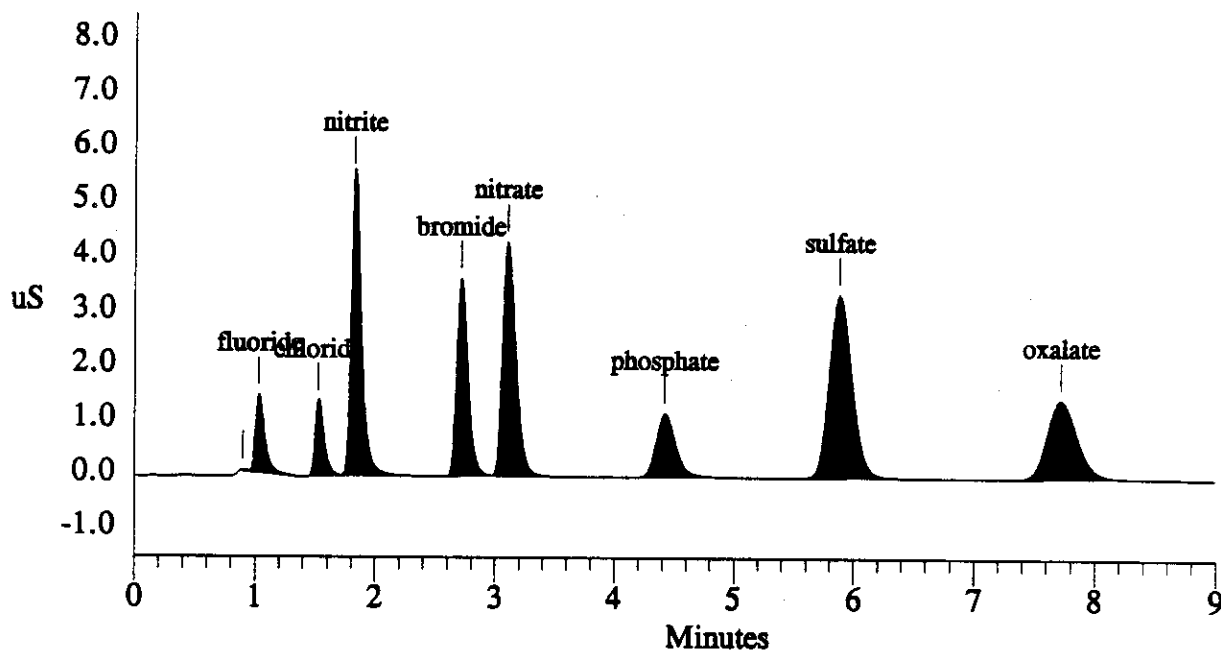
Analyst : *Daniel D. Dunham* Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	61.927	1432	7792	2	-2.83
3	1.52	chloride	76.895	1375	7332	1	0.00
4	1.82	nitrite	519.593	5518	33167	1	0.00
5	2.71	bromide	559.599	3621	23895	1	0.37
6	3.10	nitrate	608.202	4292	33586	1	0.65
7	4.42	phosphate	536.467	1169	13385	1	-1.34
8	5.88	sulfate	620.959	3359	44392	1	-0.51
9	7.72	oxalate	516.266	1440	25025	1	-0.77
Totals			3499.908	22205	188574		

File: 95100201.D02 Sample: 106N9-D



WHC-SD-WM-DP- 137, REV. 1

```

=====
Sample Name: S95T001823 SAM                      Date: 10/02/1995 03:40:16
Data File  : C:\DX\DATA\95100201.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3                Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

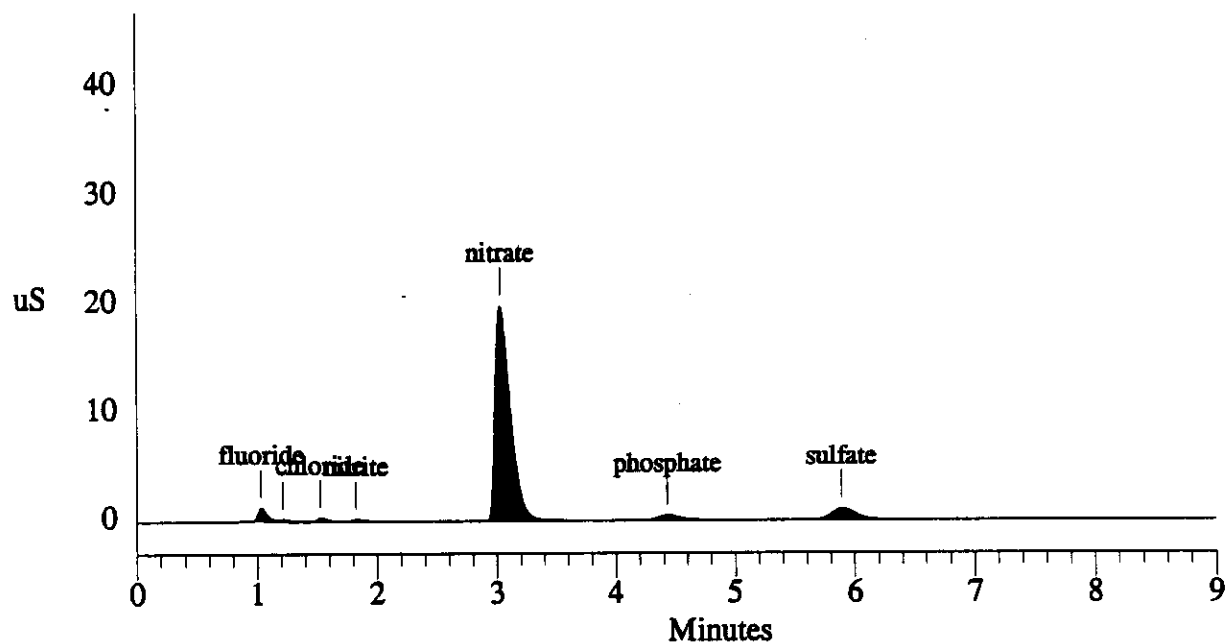
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	[REDACTED]	OK	[REDACTED]	1212	6049	3 -2.83
2	1.21	[REDACTED]	0.000	157	854	4	
3	1.52	[REDACTED]	OK	[REDACTED]	346	1863	1 0.00
4	1.82	nitrite	<THAN	21.426	173	994	1 0.00
5	3.03	[REDACTED]	OK	[REDACTED]	19846	176878	1 -1.62
6	4.43	[REDACTED]	OK	[REDACTED]	445	5162	1 -1.12
7	5.89	[REDACTED]	OK	[REDACTED]	1056	13986	1 -0.34
Totals			3461.179	23237	205786		

File: 95100201.D03 Sample: S95T001823 SAM



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001823 SAM                      Date: 10/02/1995 04:00:05
Data File  : C:\DX\DATA\95100201.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4              Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

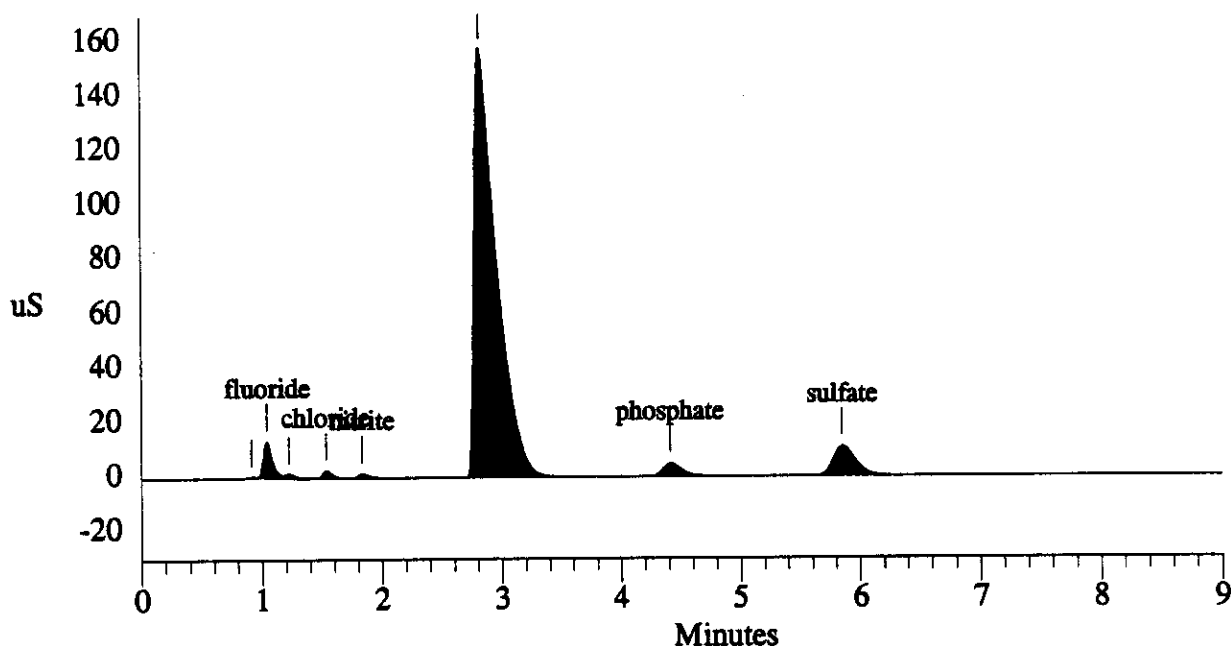
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	195	587	2	
2	1.04	fluoride	50.556	13284	69166	3	-1.89
3	1.22		0.000	1459	7319	4	
4	1.53	chloride	18.624	2903	16177	1	0.66
5	1.83	nitrate OK	nitrate	1646	9933	1	0.55
6	2.82	bromide	-2455.903	157082	2059317	1	4.44
7	4.41	phosphate	220.387	4881	55061	1	-1.56
8	5.85	sulfate	212.423	11042	146813	1	-1.02
Totals			-1936.345	192492	2364373		

File: 95100201.D04 Sample: S95T001823 SAM



WHC-SD-WM-DP-137, REV. 1

207.16

```

=====
Sample Name: S95T001823 DUP                      Date: 10/03/1995 03:31:22
Data File  : C:\DX\DATA\95100301.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5                Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

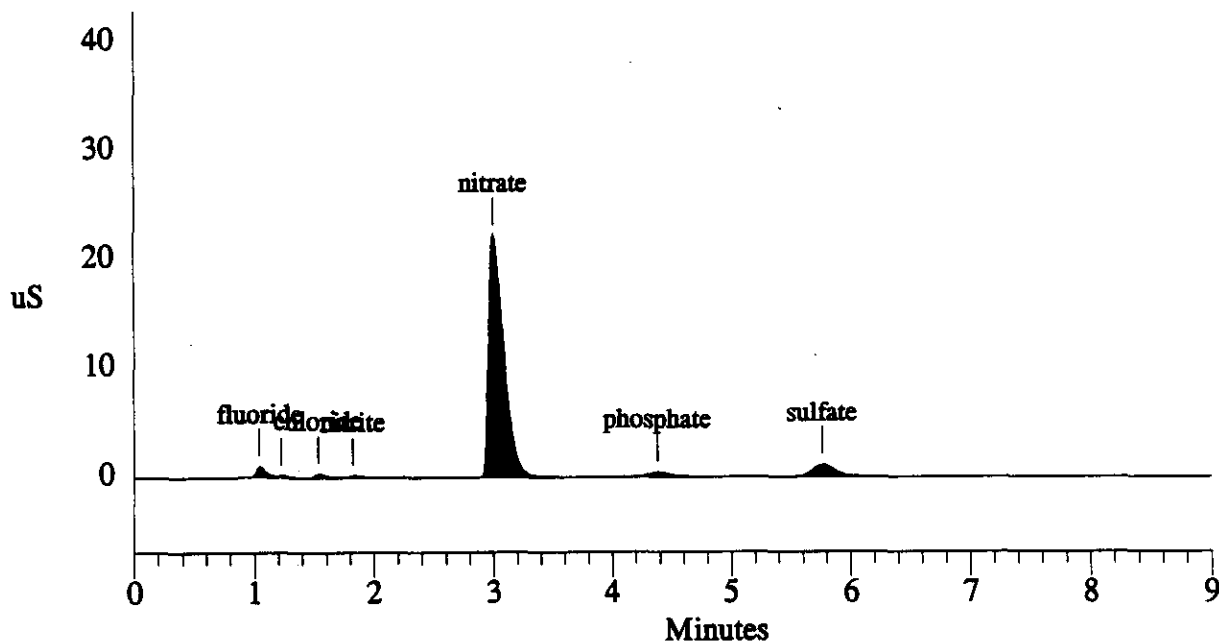
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101   2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	[REDACTED]	[REDACTED]	946	4829	3	-1.89
2	1.22	[REDACTED]	0.000	147	757	4	
3	1.53	[REDACTED]	[REDACTED]	365	1889	1	0.66
4	1.82	nitrite	22.681	179	1074	1	0.00
5	3.00	[REDACTED]	[REDACTED]	22226	197967	1	-2.60
6	4.38	[REDACTED]	[REDACTED]	453	5142	1	-2.23
7	5.76	[REDACTED]	[REDACTED]	1095	14263	1	-2.54
Totals			3767.613	25410	225922		

File: 95100301.D05 Sample: S95T001823 DUP



WHC-SD-WM-DP-137, REV. 1

207.17

=====

Sample Name: S95T001823 DUP	Date: 10/03/1995 03:53:13
Data File : C:\DX\DATA\95100301.D06	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS

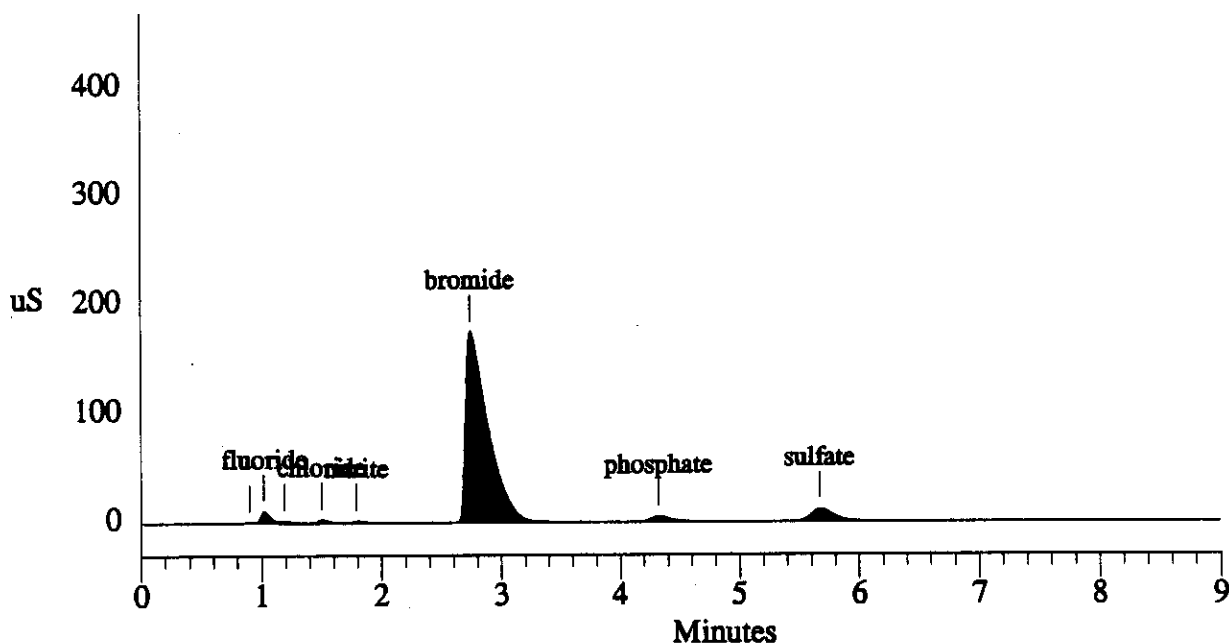
=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-----	-----	-----	-----	-----	-----	-----	-----	-----
External	1	11	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
-----	-----	-----	-----	-----	-----	-----	-----
1	0.90		0.000	213	632	2	
2	1.02	fluoride	42.247	10478	55614	3	-3.77
3	1.19		0.000	1367	7408	4	
4	1.50	chloride	19.425	3029	16884	1	-1.32
5	1.79			1662	10249	1	-1.65
6	2.74	bromide	-3774.082	174291	2305354	1	1.48
7	4.32	phosphate	223.519	4975	55925	1	-3.57
8	5.67	sulfate	215.539	11507	149132	1	-4.06
Totals			-3255.248	207522	2601198		

File: 95100301.D06 Sample: S95T001823 DUP



WHC-SD-WM-DP-132, REV. 1


```

=====
Sample Name: S95T001823 SPIKE                      Date: 10/02/1995 05:38:01
Data File  : C:\DX\DATA\95100201.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5                 Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

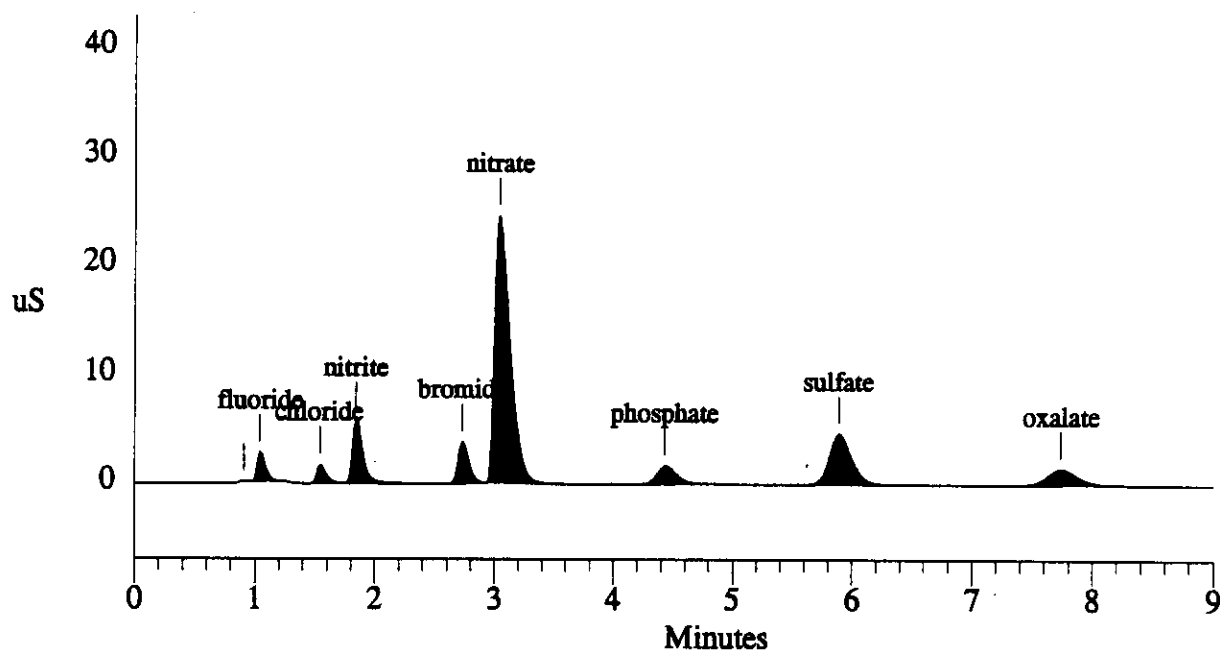
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	105.293	2694	13475	1	-1.89
3	1.54	chloride	100.312	1745	9500	1	1.32
4	1.84	nitrite	561.782	5882	35936	1	1.10
5	2.73	bromide	575.136	3838	24589	1	1.11
6	3.04	nitrate	3644.649	24495	224571	1	-1.30
7	4.43	phosphate	775.995	1714	19744	1	-1.12
8	5.89	sulfate	850.611	4656	61400	1	-0.34
9	7.74	oxalate	529.336	1492	25693	1	-0.51
Totals			7143.114	46516	414908		

File: 95100201.D05 Sample: S95T001823 SPIKE



WHC-SD-WM-DP-137, REV. 1

207.19

Sample Name: S95T001823 SPIKE

Date: 10/02/1995 05:52:59

Data File : C:\DX\DATA\95100201.D06

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

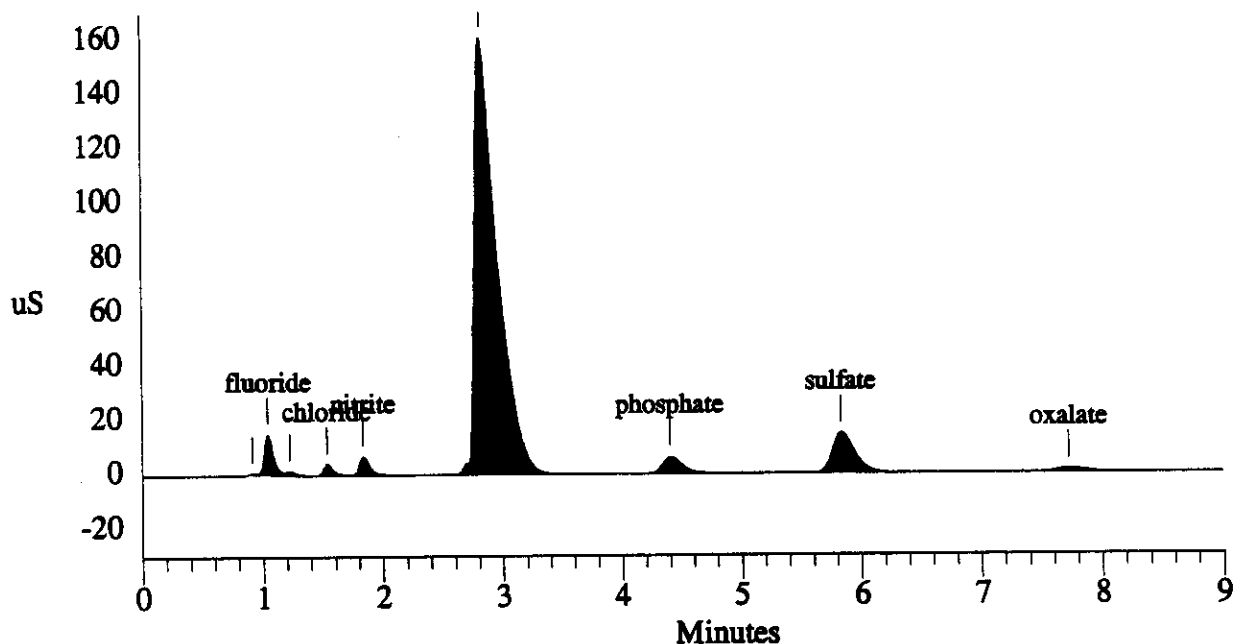
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	249	788	2	
2	1.04	fluoride	54.651	14818	76357	3	-1.89
3	1.22		0.000	1486	7609	4	
4	1.53	chloride	26.911	4156	23608	1	0.66
5	1.83	nitrite	72.298	6880	42663	1	0.55
6	2.82	bromide	-2763.078	160686	2120462	1	4.44
7	4.40	phosphate	276.139	6258	70833	1	-1.79
8	5.83	sulfate	278.162	14685	196913	1	-1.35
9	7.72	oxalate	53.674	1330	23830	1	-0.77
Totals			-2001.243	210547	2563062		

File: 95100201.D06 Sample: S95T001823 SPIKE



WHC-SD-WM-DP-137, REV. 1

207.20

LABCORE Data Entry Template for Worklist#

2597

Analyst: EHC Instrument: IC01 IC01 Book # 109A9A

Method: LA-533-105 Rev/Mod D-1

WHC-SD-WM-DP/37, REV.1

Worklist Comment: B-104 IC, especially need Br. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			gIC-QC F-QC	QC		4.062	N/A	ug/mL
		1 CCB			gIC-QC CL-QC	QC		4.083	N/A	ug/mL
		1 CCB			gIC-QC NO2-QC	QC		4.547	N/A	ug/mL
		1 CCB			gIC-QC BR-QC	QC		4.150	N/A	ug/mL
		1 CCB			gIC-QC NO3-QC	QC		4.677	N/A	ug/mL
		1 CCB			gIC-QC PO4-QC	QC		4.596	N/A	ug/mL
		1 CCB			gIC-QC SO4-QC	QC		4.678	N/A	ug/mL
		1 CCB			gIC-QC OXALATQC	QC		4.496	N/A	ug/mL
		2 CCV			gIC-QC F-QC	QC		61.3	N/A	ug/mL
		2 CCV			gIC-QC CL-QC	QC		77.3	N/A	ug/mL
		2 CCV			gIC-QC NO2-QC	QC		51.9	N/A	ug/mL
		2 CCV			gIC-QC BR-QC	QC		56.9	N/A	ug/mL
		2 CCV			gIC-QC NO3-QC	QC		60.2	N/A	ug/mL
		2 CCV			gIC-QC PO4-QC	QC		56.8	N/A	ug/mL
		2 CCV			gIC-QC SO4-QC	QC		63.1	N/A	ug/mL
		2 CCV			gIC-QC OXALATQC	QC		55.9	N/A	ug/mL
		3 BLNK-PREP			gIC-01 F-02	SOLID		4.062	N/A	ug/g
		3 BLNK-PREP			gIC-01 CL-02	SOLID		4.083	N/A	ug/g

Data Entry Comments:

LOMS 109A9A .100ml - 10m1 S95T0001829 5.7m 10.0600g/L DUP
Spike 109A9A .100ml S95T001830 10.100 10.0791

S95T001829 has organic acid interference with F causing high Spike recovery 97%
 The high NO₂ causes interference with Br Spike causing 61% Spike recovery 51%
 Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
 R = Replicate Number, A = Aliquot Code.

207.21

LABCORE Data Entry Template for Worklist#

2597

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				QIC-01 NO2-02	SOLID		2.547	N/A	ug/g
		3	BLNK-PREP				QIC-01 BR-02	SOLID		2.150	N/A	ug/g
		3	BLNK-PREP				QIC-01 NO3-02	SOLID		2.699	N/A	ug/g
		3	BLNK-PREP				QIC-01 PO4-02	SOLID		2.596	N/A	ug/g
		3	BLNK-PREP				QIC-01 SO4-02	SOLID		2.678	N/A	ug/g
		3	BLNK-PREP				QIC-01 OXALATE2	SOLID		2.496	N/A	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 F-02	SOLID	N/A	3.21e3	1.22e2	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 CL-02	SOLID	N/A	1.92e3	1.64e2	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 NO2-02	SOLID	N/A	2.09e3	1.63e3	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 BR-02	SOLID	N/A	2.95e2	2.95e2	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 NO3-02	SOLID	N/A	2.70e5	6.62e3	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 PO4-02	SOLID	N/A	2.4e4	1.17e3	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 SO4-02	SOLID	N/A	2.01e4	1.34e3	ug/g
95000085	B-104	4	SAMPLE	S95T001829	0	W	QIC-01 OXALATE2	SOLID	N/A	2.97e2	4.77e2	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 F-02	SOLID	3.21e3	2.97e3	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 CL-02	SOLID	1.92e3	1.75e3	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 NO2-02	SOLID	2.09e3	1.88e3	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 BR-02	SOLID	2.95e2	2.95e2	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 NO3-02	SOLID	2.70e5	2.79e5	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 PO4-02	SOLID	2.4e4	1.90e4	N/A	ug/g
95000085	B-104	5	DUP	S95T001829	0	W	QIC-01 SO4-02	SOLID	2.01e4	1.73e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.22

LABCORE Data Entry Template for Worklist#

2597

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 DUP	S95T001829	0 W	QIC-01 OXALATE2	SOLID	<9.77e2	<9.77e2	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 F-02	SOLID	100	121.7	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 CL-02	SOLID		103.0	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 NO2-02	SOLID		92.3	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 BR-02	SOLID		94.6	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 NO3-02	SOLID		114.2	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 PO4-02	SOLID		110.1	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 SO4-02	SOLID		128.3	N/A	ug/g
95000085	B-104	6 SPK	S95T001829	0 W	QIC-01 OXALATE2	SOLID		103.0	N/A	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 F-02	SOLID	N/A	3.37e3	1.29e2	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 CL-02	SOLID	N/A	2.04e3	1.72e2	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 NO2-02	SOLID	N/A	2.39e3	1.14e3	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 BR-02	SOLID	N/A	3.58e2	3.12e2	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 NO3-02	SOLID	N/A	2.70e5	6.88e3	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 PO4-02	SOLID	N/A	2.40e4	1.24e3	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 SO4-02	SOLID	N/A	2.10e4	1.41e3	ug/g
95000085	B-104	7 SAMPLE	S95T001830	0 W	QIC-01 OXALATE2	SOLID	N/A	2.10e3	1.03e3	ug/g
95000085	B-104	8 DUP	S95T001830	0 W	QIC-01 F-02	SOLID	3.37e3	2.98e3	N/A	ug/g
95000085	B-104	8 DUP	S95T001830	0 W	QIC-01 CL-02	SOLID	2.04e3	1.81e3	N/A	ug/g
95000085	B-104	8 DUP	S95T001830	0 W	QIC-01 NO2-02	SOLID	2.39e3	2.09e3	N/A	ug/g
95000085	B-104	8 DUP	S95T001830	0 W	QIC-01 BR-02	SOLID	3.58e2	3.55e2	N/A	ug/g
95000085	B-104	8 DUP	S95T001830	0 W	QIC-01 NO3-02	SOLID	2.70e5	2.72e5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

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LABCORE Data Entry Template for Worklist#

2597

Analyst: EC Instrument: IC01 Book # 109X19-A

Method: LA-533-105 Rev/Mod D-1 WHC-SD-WM-OP-137, REV. 1

Worklist Comment: B-104 IC, especially need Br. JMF *Do only one spiked sample, I will change the worklist. Thanks*

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			QIC-01 F-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 CL-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 NO2-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 BR-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 NO3-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 PO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 SO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP			QIC-01 OXALATE2	SOLID			N/A	ug/g
		2 STD			QIC-01 F-02	SOLID			N/A	ug/g
		2 STD			QIC-01 CL-02	SOLID			N/A	ug/g
		2 STD			QIC-01 NO2-02	SOLID			N/A	ug/g
		2 STD			QIC-01 BR-02	SOLID			N/A	ug/g
		2 STD			QIC-01 NO3-02	SOLID			N/A	ug/g
		2 STD			QIC-01 PO4-02	SOLID			N/A	ug/g
		2 STD			QIC-01 SO4-02	SOLID			N/A	ug/g
		2 STD			QIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

S95T001829

Sample
10.0660g/L

Dup
10.1180

S95T001830

10.1100

10.0790

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.25

LABCORE Data Entry Template for Worklist#

2597

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001829	0 W	QIC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001829	0 W	QIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001829	0 W	QIC-01 SO4-02	SOLID			N/A	ug/g

Data Entry Comments:

LMCS 109A9-A 100ml - 10ml

SPIKE 109A9-A 100ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2597

OUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	S95T001829	0 W	@IC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 CL-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001830	0 W	@IC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001830	0 W	@IC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	@IC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	@IC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	@IC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	@IC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	@IC-01 NO3-02	SOLID			N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2597

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	8 SPK	S95T001830	0 W	QIC-01	P04-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	QIC-01	S04-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001830	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist #

2597

E.H. Cohen 10-4-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

207.28

LAB LEADER INFO	
Method:	LA-533-105 D-1
Matrix:	solid
Treat Code:	000-01
Work List #:	2507
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spikes Batch Number:	100H8A
Spikes Sample #:	1
Prepared By:	Jean Frye
Prepared Date:	10/17/06
Chemist:	Jean Frye
Analyte:	Ed Colvin
Analyte Date:	10/04/06
Time Complete:	11:30 AM
Instrument Code:	1001
Recur:	0
Sample Prep:	washer digest
Sample Point:	B-104
Sample Type	
STANDARD	100H8A
SAMPLE 1	998T001823
DUPLICATE 1	998T001823dup
SAMPLE 2	998T001823
DUPLICATE 2	998T001823dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPKCE	998T001823spk
SPKCE DUPLICATE	



TECH INFO									
Blank Data (µg/mL)	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
	<.062	<.063	<.547	<.899	<.896	<.678	<.160	<.486	
Standard Data (µg/mL)	81.3	77.3	518.0	807.2	560.5	631.1	568.6	551.9	
Sample 1 Data (µg/mL)	3.42E+01	2.04E+01	2.23E+01	2.88E+03	2.28E+02	2.15E+02	<.160	<.486	
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21	
Sample 1 Prep DF	10.66	10.66	10.66	10.66	10.66	10.66	10.66	10.66	
Duplicate 1 Data (µg/mL)	3.00E+01	1.77E+01	1.90E+01	2.82E+03	1.93E+02	1.75E+02	<.160	<.486	
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21	
Duplicate 1 Prep DF	10.118	10.118	10.118	10.118	10.118	10.118	10.118	10.118	
Sample 2 Data (µg/mL)	3.41E+01	2.03E+01	2.41E+01	2.73E+03	2.42E+02	2.13E+02	3.82E+00	<.486	
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21	
Sample 2 Prep DF	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	
Duplicate 2 Data (µg/mL)	3.00E+01	1.82E+01	2.11E+01	2.78E+03	2.14E+02	1.87E+02	3.58E+00	<.486	
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21	
Duplicate 2 Prep DF	10.079	10.079	10.079	10.079	10.079	10.079	10.079	10.079	
Sample 3 Data (µg/mL)									
Sample 3 Dilution Factor									
Sample 3 Prep DF									
Duplicate 3 Data (µg/mL)									
Duplicate 3 Dilution Factor									
Duplicate 3 Prep DF									
Sample 4 Data (µg/mL)									
Sample 4 Dilution Factor									
Sample 4 Prep DF									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Dilution Factor									
Duplicate 4 Prep DF									
Spikes + Sample 1 (µg/mL)	4.80E+01	3.67E+01	1.20E+02	3.48E+03	3.33E+02	3.64E+02	7.90E+01	1.00E+02	
Spikes + Dug 1 (µg/mL)									

Spikes Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.66	10.66	10.66	10.66	10.66	10.66	10.66	10.66	10.66
Std. Conc. (µg/mL)	80	79	533	614	546	631	575	528	528
Detection Limit	0.062	0.063	0.547	0.899	0.896	0.678	0.160	0.486	
Matrix Detection Limit 1	1.22E+02	1.64E+02	1.00E+03	6.52E+03	1.17E+03	1.34E+03	2.90E+02	9.77E+02	
Matrix Detection Limit 2	1.20E+02	1.72E+02	1.14E+03	6.90E+03	1.24E+03	1.41E+03	3.12E+02	1.03E+03	
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

Spikes Recovery = (Spikes+Sample)/(Total Volume*Spikes Vol)*Spikes Vol*100%
 Note: For spikes recovery values the sample conc. is less than detection limit just do NOT subtract sample conc.)
 Duplicate Relative % Difference = ((Spikes + Duplicate) / (Spikes + Duplicate) / 2) * 100%
 Limit than Values are Calculated from the Detection Limit/Dilution Factor

V RESULTS v									
Standard % Recovery	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Sample 1 in 10/19	3.31E+03	1.78E+03	2.00E+03	2.70E+03	2.14E+04	2.07E+04	<250.30	<87.71	
Duplicate 1 in 10/19	3.07E+03	1.78E+03	1.84E+03	2.70E+03	1.80E+04	1.73E+04	<311.33	<1029.48	
Duplicate 1 RPD	7.5%	0.5%	10.5%	3.3%	11.0%	18.0%	N/A	N/A	
Sample 2 in 10/19	3.37E+03	2.04E+03	2.38E+03	2.70E+03	2.40E+04	2.10E+04	3.88E+02	<1030.27	
Duplicate 2 in 10/19	3.06E+03	1.81E+03	2.00E+03	2.72E+03	2.15E+04	1.80E+04	3.88E+02	<1033.44	
Duplicate 2 RPD	12.8%	13.1%	13.3%	0.9%	12.0%	12.2%	0.9%	N/A	
Spikes % Recovery	121.7%	163.6%	87.3%	84.3%	114.2%	110.1%	48.3%	103.6%	

Date Entry by:	Jean Frye	Date:	10/17/06
Approved by:	Jean Frye	Date:	10/17/06

207.29

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001829 & S95T001830

TEST CODE: @ic-01

INSTRUMENT: ic01

WORK LIST #: 2597

BATCH ID:

ANALYST: Ed Colvin

ANALYSIS DATE: 10/04/95

SAMPLE POINT: B-104

SAMPLE PREP: water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		103.9%	97.8%	97.8%	98.9%	102.7%	100.0%	99.1%	104.9%
S95T001829		3.21E+03	1.92E+03	2.09E+03	2.70E+05	2.14E+04	2.01E+04	<295.50	<977.11
S95T001829dup		2.97E+03	1.75E+03	1.88E+03	2.79E+05	1.90E+04	1.73E+04	<311.33	<1029.45
Duplicate 1 RPD		7.9%	9.0%	10.6%	3.3%	11.6%	15.0%	N/A	N/A
S95T001830		3.37E+03	2.04E+03	2.39E+03	2.70E+05	2.40E+04	2.10E+04	3.58E+02	<1030.27
S95T001830dup		2.98E+03	1.81E+03	2.09E+03	2.72E+05	2.13E+04	1.86E+04	3.55E+02	<1033.44
Duplicate 2 RPD		12.5%	12.1%	13.3%	0.9%	12.0%	12.2%	0.9%	N/A
S95T001829apk		121.7%	103.0%	97.3%	94.6%	114.2%	110.1%	68.3%	103.0%

NARRATIVE:

Analyst Comments:

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Chemist Comments:

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Form Completed By: <i>James M. Lyle</i>	Date: 10/17/95
Chemist Approval: <i>James M. Lyle</i>	Date: 10/17/95

207, 30

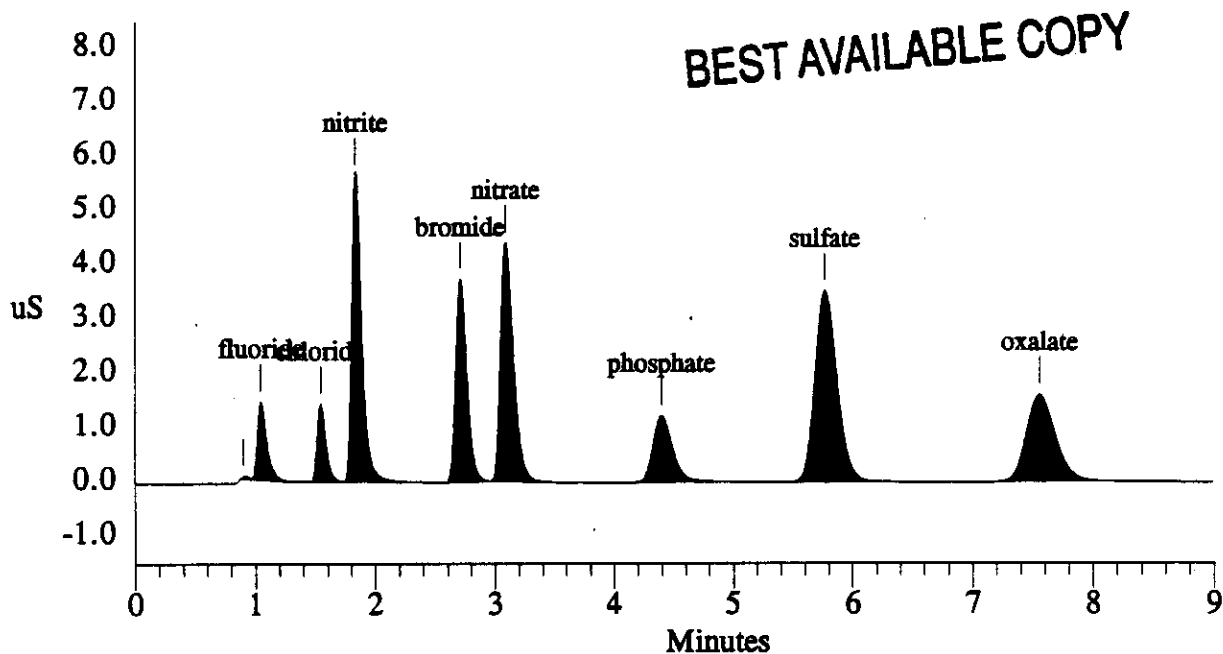
Sample Name: 109N9-A STD Date: 10/04/1995 08:14:47
 Data File : C:\DX\DATA\95100431.D02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : *PN. C. L.* Column: AG4A/AS4A anion column/SRS

10-04-95
 Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 101 2700 5Hz 0.00 9.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	61.339	1434	7727	2	-1.89
3	1.54	chloride	77.303	1434	7292	1	1.32
4	1.83	nitrite	519.984	5645	33273	1	0.55
5	2.71	bromide	569.665	3732	24439	1	0.37
6	3.09	nitrate	607.293	4398	33545	1	0.32
7	4.40	phosphate	560.857	1226	14128	1	-1.79
8	5.77	sulfate	631.159	3519	45220	1	-2.37
9	7.56	oxalate	551.980	1602	27013	1	-2.83
Totals			3579.581	22990	192636		

File: 95100431.D02 Sample: 109N9-A STD



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 207.31 TO 207.43

WHO-CD-WM-DF-137, REV. 1

207.31

```

=====
Sample Name: PREP BLANK                      Date: 10/04/1995 08:40:23
Data File  : C:\DX\DATA\95100431.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

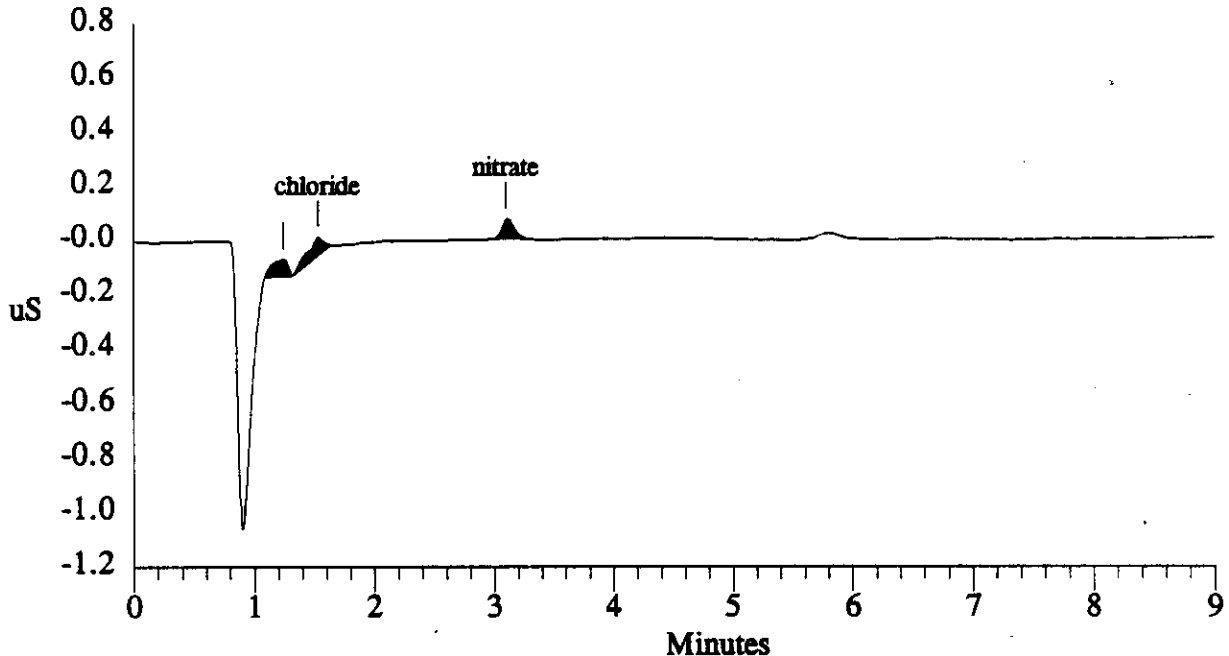
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.24		0.000	62	596	1	
2	1.53	chloride	0.053	66	688	1	0.66
3	3.10	nitrate	0.104	75	547	1	0.65
Totals			0.157	203	1830		

File: 95100431.D04 Sample: PREP BLANK



WHC-SD-WM-DP-132, REV. 1

```

=====
Sample Name: INSTR BLANK                      Date: 10/04/1995 07:15:07
Data File  : C:\DX\DATA\95100421.D01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 1       Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

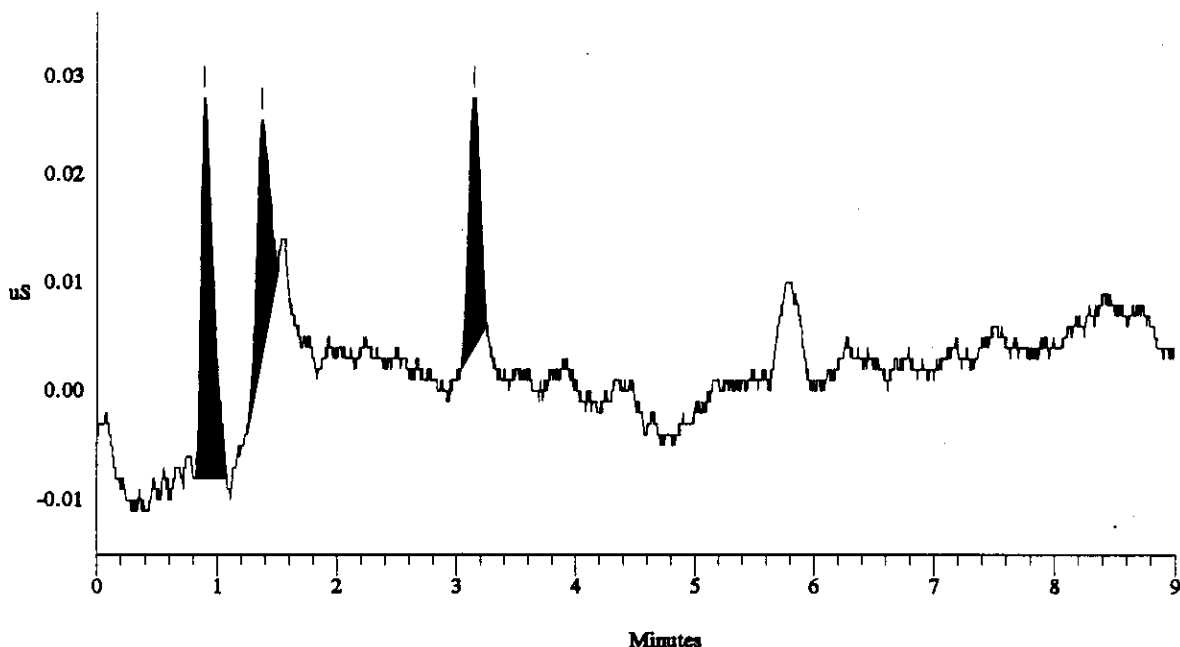
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    2700   5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	35	246	1	
Totals			0.000	35	246		

File: 95100421.D01 Sample: INSTR BLANK



WHC-SD-WM-DP-137, REV. 1

207.33

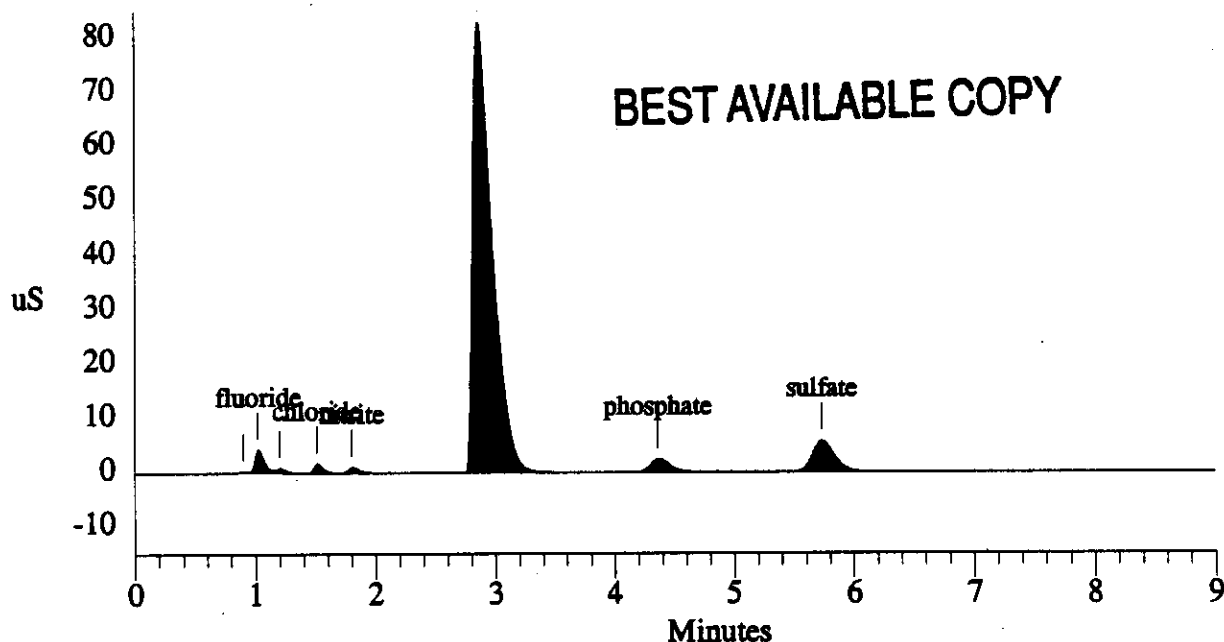
Sample Name: S95T001829 *T.V. 10.5 min* Date: 10/04/1995 08:57:49
 Data File : C:\DX\DATA\95100431.D05
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	121	390	2	
2	1.02	fluoride	34.213	4117	21515	3	-3.77
3	1.20		0.000	759	4039	4	
4	1.51	chloride	20.440	1722	9255	1	-0.66
5	1.80	nitrite	22.263	1076	6600	1	-1.10
6	2.86	bromide <i>nitrate</i> <i>Sp. F 10/13/95</i>	1443.832	82815	946512	1	5.93
7	4.36	phosphate	228.068	2509	28486	1	-2.68
8	5.73	sulfate	214.745	5786	75122	1	-3.05
Totals			1963.561	98904	1091918		

File: 95100431.D05 Sample: S95T001829



WHC-SD-WM-DP-132, REV. 1

207.34


```

=====
Sample Name: S95T001829      Date: 10/04/1995 10:10:30
Data File  : C:\DX\DATA\95100431.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
Analyst    : Column: AG4A/AS4A anion column/SRS
=====

```

```

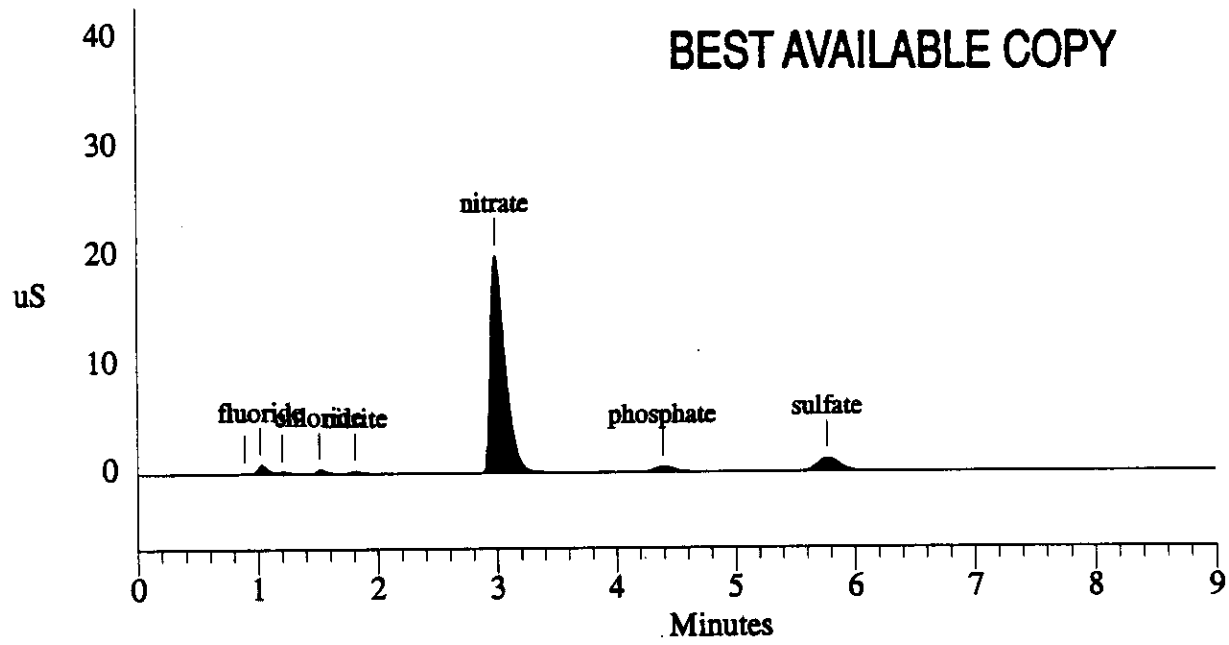
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	33.716	789	4197	2	-3.77
3	1.20		0.000	163	848	2	
4	1.51	chloride	19.731	381	1992	1	-0.66
5	1.81	nitrite	24.939	240	1372	1	-0.55
6	2.99	nitrate	2878.869	19958	171933	1	-2.92
7	4.39	phosphate	228.383	489	5527	1	-2.01
8	5.77	sulfate	220.457	1184	15459	1	-2.37
Totals			3406.095	23204	201328		

File: 95100431.D07 Sample: S95T001829



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001829 DUP Tot. Vol. 10.5 Date: 10/04/1995 10:36:37
Data File : C:\DX\DATA\95100431.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

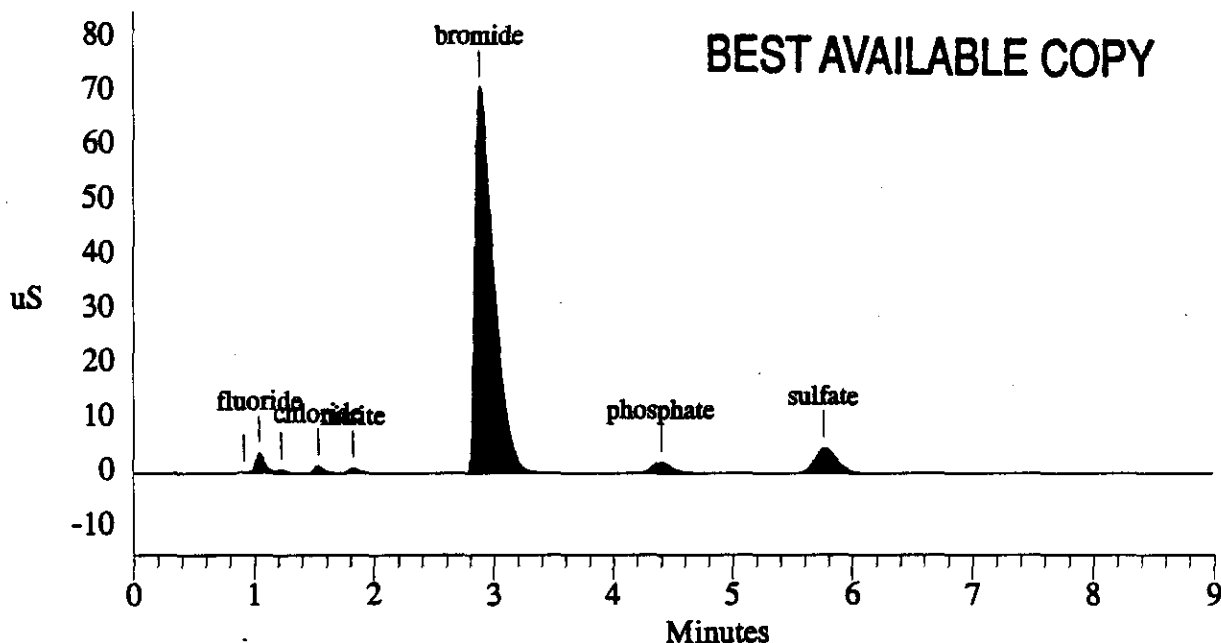
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 21 2700 5Hz 0.00 9.00 200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	103	370	2	
● 1.04	1.04	fluoride	30.002	3579	18729	3	-1.89
3	1.22		0.000	668	3528	4	
● 1.53	1.53	chloride	17.735	1461	8037	1	0.66
● 1.82	1.82	nitrite	19.007	926	5601	1	0.00
6	2.88	bromide <i>nitrate 12/13/85</i>	1645.272	70870	780197	1	6.67
● 4.40	4.40	phosphate	192.722	2078	23863	1	-1.79
● 5.76	5.76	sulfate	175.400	4692	60933	1	-2.54
Totals			2080.138	84377	901257		

File: 95100431.D09 Sample: S95T001829 DUP



WHC-SD-WM-DP-137, REV. 1

207.36

```

=====
Sample Name: S95T001829  DUP  Tel. Ver. 10.1  Date: 10/04/1995 10:24:56
Data File : C:\DX\DATA\95100431.D08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 8  Detector: CDM-1
Analyst :  Column: AG4A/AS4A anion column/SRS
=====

```

```

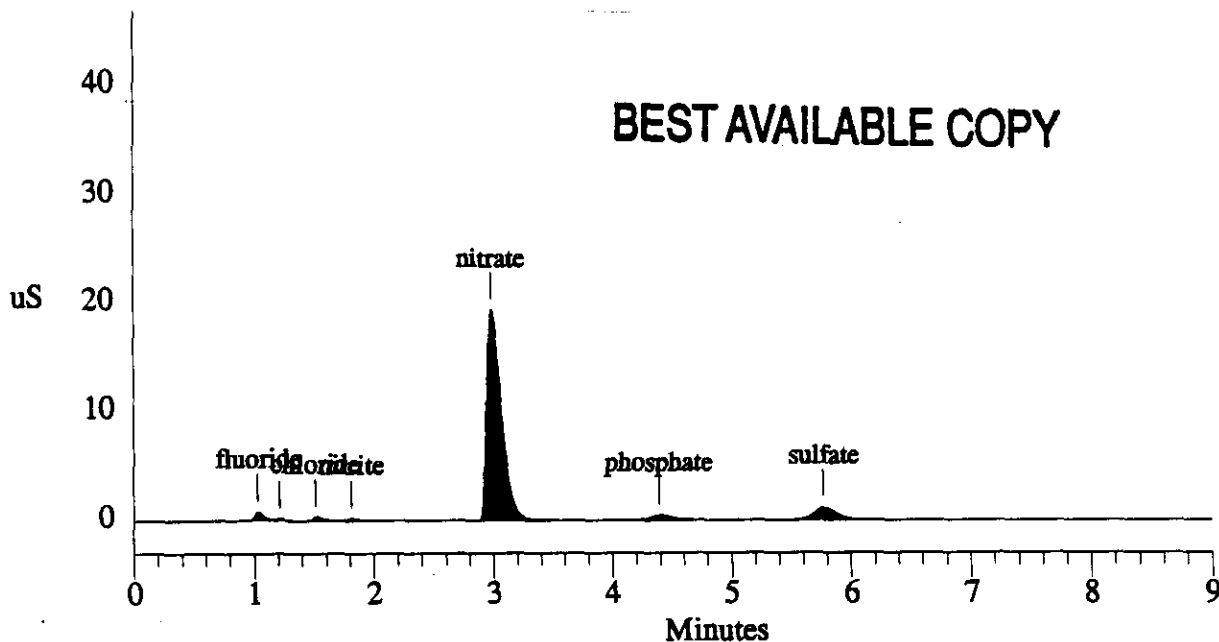
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 101 2700 5Hz 0.00 9.00 200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	31.867	808	3962	2	-2.83
2	1.21		0.000	160	788	2	
3	1.51	chloride	19.894	372	2007	1	-0.66
4	1.81	nitrite	24.503	233	1344	1	-0.55
5	2.98	nitrate	2824.264	19344	168317	1	-3.25
6	4.39	phosphate	231.002	484	5594	1	-2.01
7	5.77	sulfate	207.776	1131	14552	1	-2.37
Totals			3339.307	22532	196565		

File: 95100431.D08 Sample: S95T001829 DUP



WHC-SD-WM-DP-137, REV. 1

207.37

```

=====
Sample Name: S95T001830   To/VA: 10.5   Date: 10/04/1995 11:18:05
Data File  : C:\DX\DATA\95100431.D13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 13   Detector: CDM-1
Analyst    :           Column: AG4A/AS4A anion column/SRS
=====

```

```

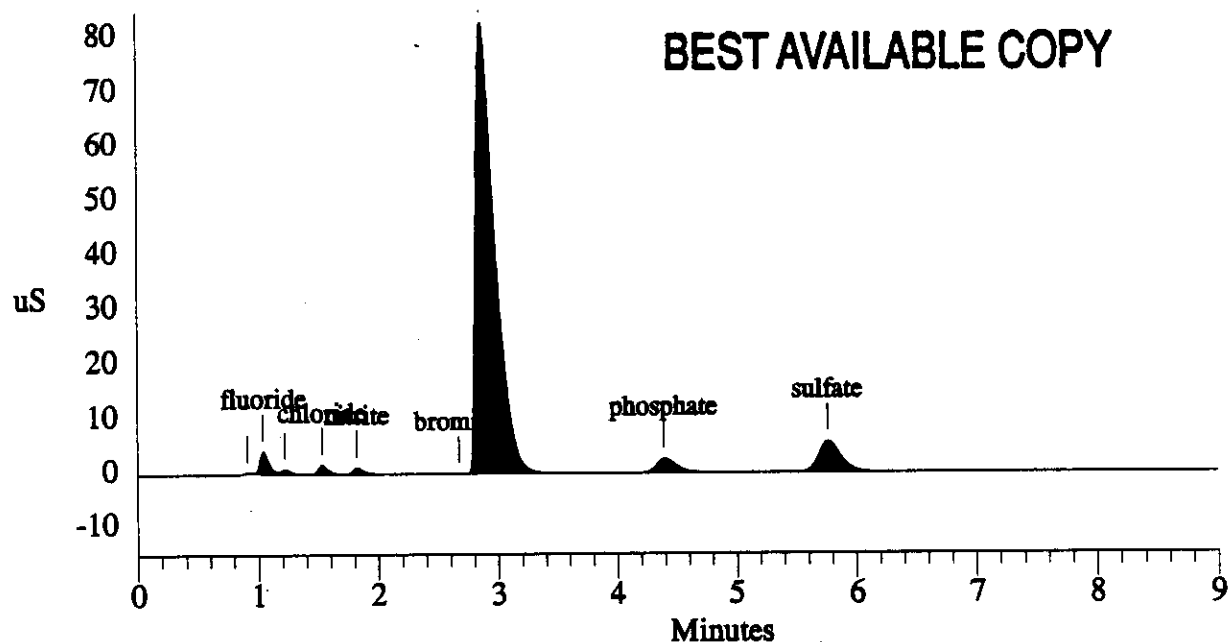
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	121	426	2	
●	1.04	fluoride	34.084	4141	21428	2	-1.89
3	1.22		0.000	831	4426	2	
●	1.53	chloride	20.617	1714	9335	1	0.66
●	1.82	nitrite	24.142	1190	7177	1	0.00
●	2.67	bromide	3.623	59	284	1	-1.11
7	2.86	nitrate	1807.637	82618	929488	1	-7.14
●	4.39	phosphate	242.354	2656	30374	1	-2.01
●	5.76	sulfate	212.500	5737	74308	1	-2.54
Totals			2344.958	99067	1077246		

File: 95100431.D13 Sample: S95T001830



WHC-SD-WM-DP-137, REV. 1

207.38

```

=====
Sample Name: S95T001830   Total Vol. 0.1   Date: 10/04/1995 11:08:17
Data File  : C:\DX\DATA\95100431.D12
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 12   Detector: CDM-1
Analyst    :           Column: AG4A/AS4A anion column/SRS
=====

```

```

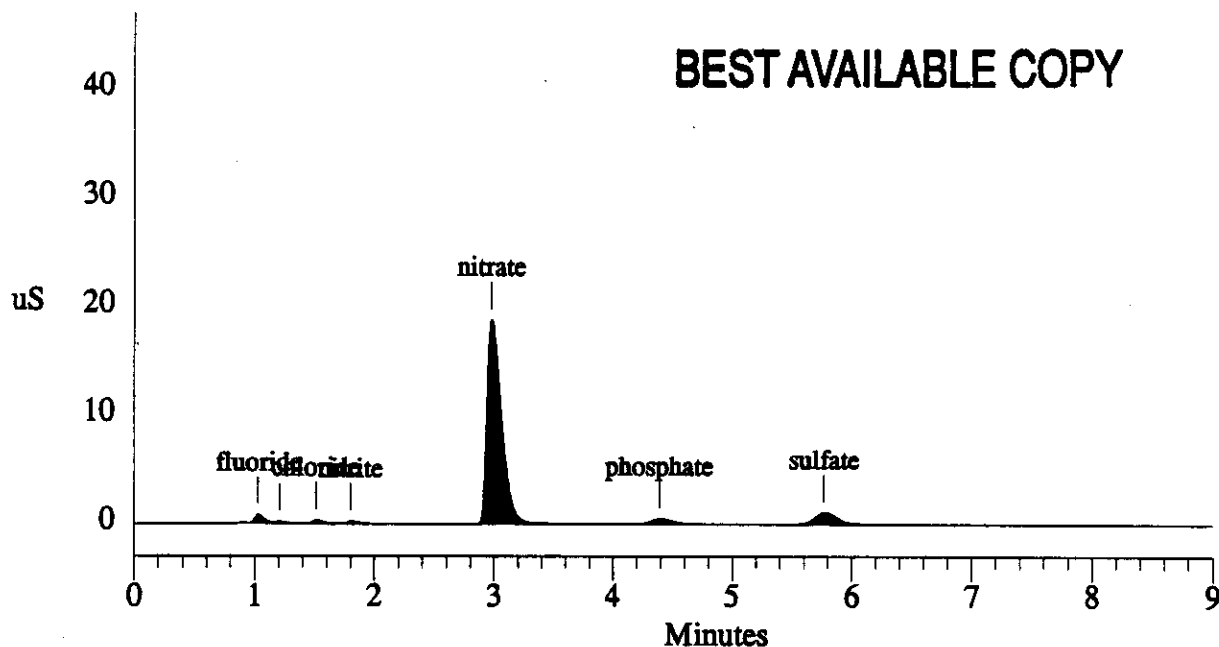
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	30.815	780	3829	2	-2.83
2	1.21		0.000	157	789	2	
3	1.51	chloride	19.220	362	1946	1	-0.66
4	1.80	nitrite	26.191	242	1451	1	-1.10
5	2.98	nitrate	2730.286	18841	162132	1	-3.25
6	4.39	phosphate	235.515	502	5709	1	-2.01
7	5.77	sulfate	206.805	1114	14483	1	-2.37
Totals			3248.832	21997	190340		

File: 95100431.D12 Sample: S95T001830



WHC-SD-WM-DP-137, REV. 1

207.39

```

=====
Sample Name: S95T001830 DUP 701.000 10.5 Date: 10/04/1995 11:28:13
Data File : C:\DX\DATA\95100431.D14
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

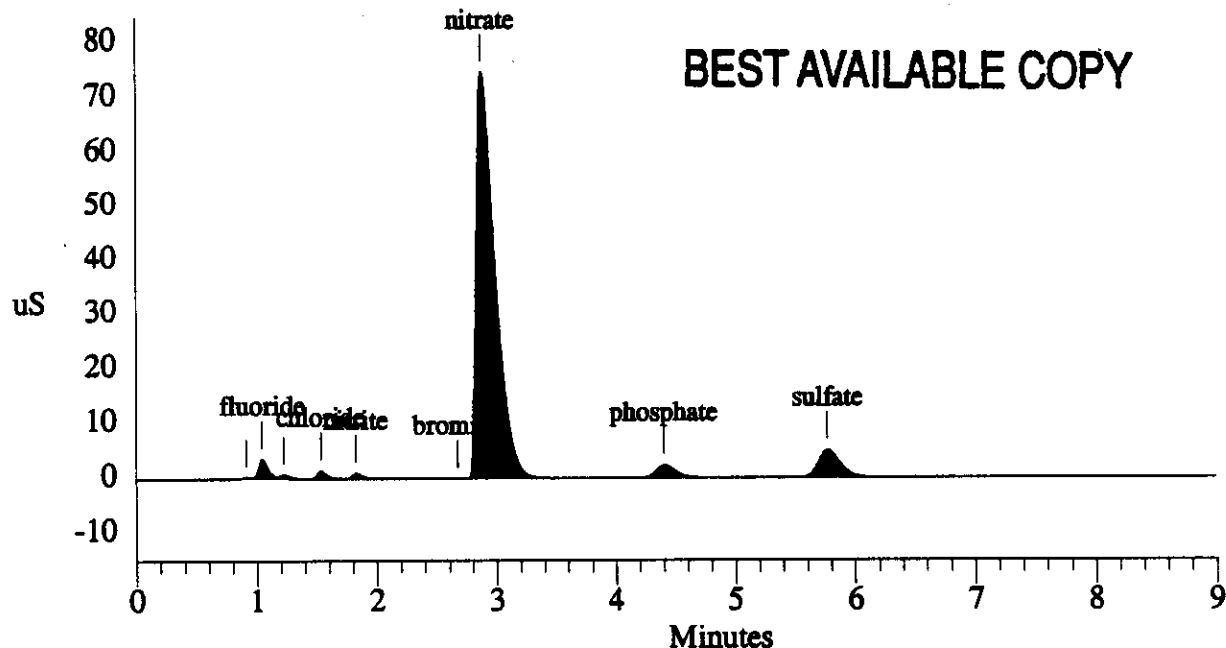
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 21 2700 5Hz 0.00 9.00 200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	100	344	2	
2	1.04	fluoride	29.993	3529	18723	2	-1.89
3	1.22		0.000	730	3825	2	
4	1.53	chloride	18.227	1548	8258	1	0.66
5	1.82	nitrite	21.074	1058	6235	1	0.00
6	2.67	bromide	3.580	56	275	1	-1.11
7	2.87	nitrate	1779.068	74645	824613	1	-6.82
8	4.40	phosphate	214.317	2343	26679	1	-1.79
9	5.77	sulfate	187.472	5078	65267	1	-2.37
Totals			2253.730	89088	954219		

File: 95100431.D14 Sample: S95T001830 DUP



WHC-SD-WM-DP-132, REV. 1

207.40

```

=====
Sample Name: S95T001830 DUP Tested 10/1 Date: 10/04/1995 11:38:02
Data File : C:\DX\DATA\95100431.D15
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15 Detector: CDM-1
Analyst : E.H. Cahn Column: AG4A/AS4A anion column/SRS
=====

```

```

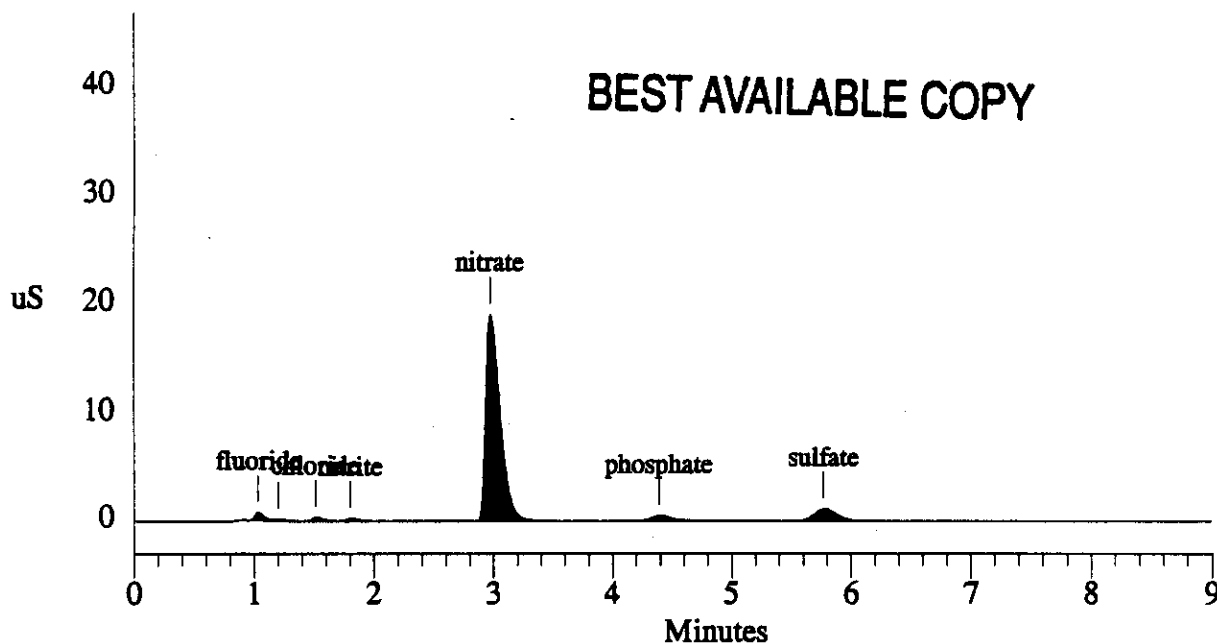
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 101 2700 5Hz 0.00 9.00 200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	30.497	770	3789	3	-2.83
2	1.20		0.000	155	840	4	
3	1.51	chloride	19.506	366	1972	1	-0.66
4	1.80	nitrite	25.996	246	1439	1	-1.10
● 5	2.97	nitrate	2745.611	19044	163137	1	-3.57
6	4.39	phosphate	236.321	501	5730	1	-2.01
7	5.77	sulfate	206.500	1118	14461	1	-2.37
Totals			3264.431	22200	191369		

File: 95100431.D15 Sample: S95T001830 DUP



WHO-SD-WM-DP-132, REV. 1

207.41

```

=====
Sample Name: S95T001829 + SPIKE 707.06.10.5 Date: 10/04/1995 10:46:32
Data File : C:\DX\DATA\95100431.D10
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

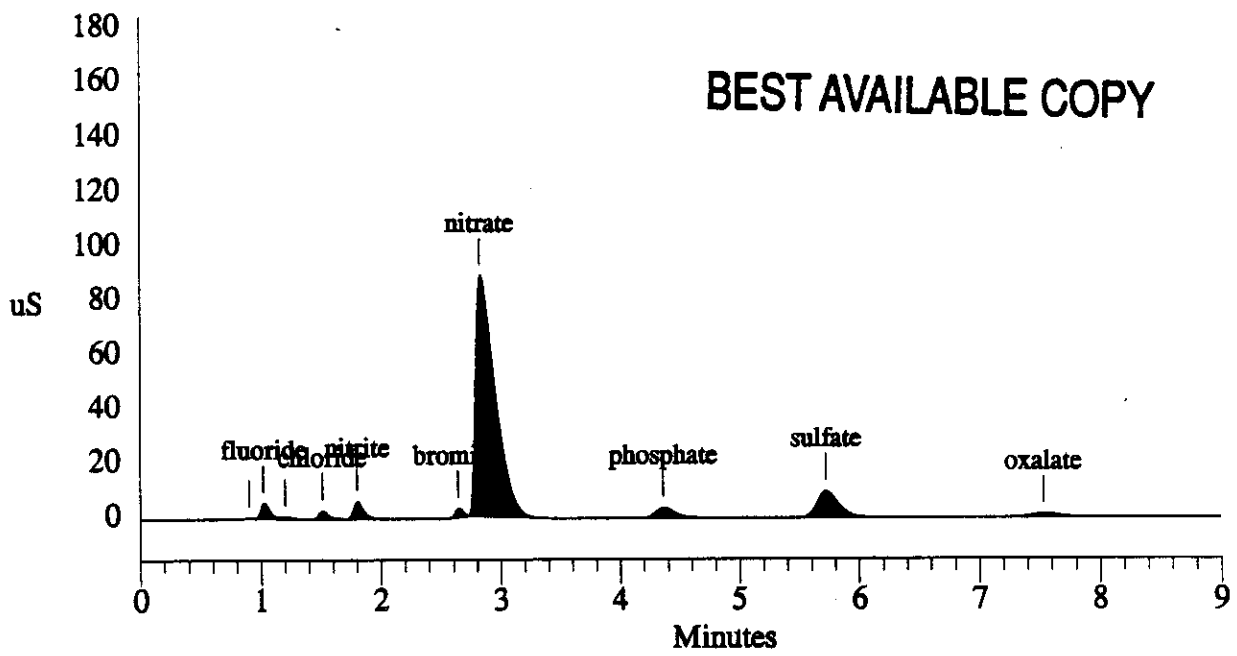
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 21 2700 5Hz 0.00 9.00 200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	146	452	2	
●	1.02	fluoride	48.563	5751	31338	3	-3.77
3	1.20		0.000	809	4070	4	
●	1.51	chloride	36.714	3122	16720	1	-0.66
●	1.80	nitrite	126.017	6574	38919	1	-1.10
●	2.64	bromide	78.564	3325	15951	1	-2.22
7	2.83	nitrate	1797.924	88941	1014973	1	-8.12
●	4.36	phosphate	352.772	3978	45366	1	-2.68
●	5.72	sulfate	353.767	9899	126835	1	-3.21
●	7.53	oxalate	108.438	1502	25468	1	-3.21
Totals			2902.759	124046	1320091		

File: 95100431.D10 Sample: S95T001829 + SPIKE



WHO-CD-WM-OP-132, REV. 1


```

=====
Sample Name: S95T001829 + SPIKE Tot. Vol. 10.1 Date: 10/04/1995 10:56:27
Data File : C:\DX\DATA\95100431.D11
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

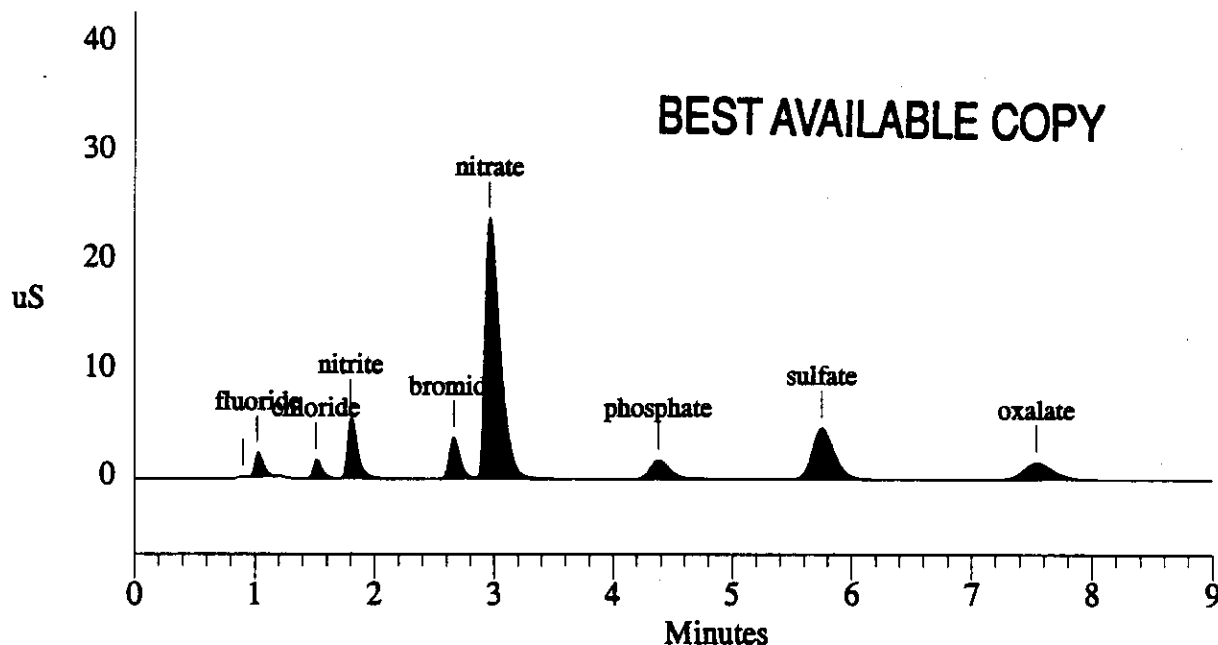
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 101 2700 5Hz 0.00 9.00 200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	86.266	2204	10968	1	-3.77
3	1.51	chloride	97.215	1750	9152	1	-0.66
4	1.80	nitrite	533.128	5759	34133	1	-1.10
5	2.66	bromide	557.292	3769	23888	1	-1.48
6	2.96	nitrate	3459.415	23785	211482	1	-3.90
7	4.38	phosphate	795.412	1762	20332	1	-2.23
8	5.75	sulfate	845.085	4762	61044	1	-2.71
9	7.54	oxalate	540.610	1570	26436	1	-3.08
Totals			6914.423	45360	397436		

File: 95100431.D11 Sample: S95T001829 + SPIKE



WHG-SD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2598

Analyst: RJ McCann

Instrument: IC01 IC01

Book # 10649-D

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC, Especially need Br. JMF

Do only one spike, I will change WCL.

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			QIC-01 F-02	SOLID		<68.2 66.6	N/A	ug/g
		1 BLNK-PREP			QIC-01 CL-02	SOLID		<89.16 89.16	N/A	ug/g
		1 BLNK-PREP			QIC-01 NO2-02	SOLID		<58.8 58.8	N/A	ug/g
		1 BLNK-PREP			QIC-01 BR-02	SOLID		<67.4 67.4	N/A	ug/g
		1 BLNK-PREP			QIC-01 NO3-02	SOLID		<75.1 75.1	N/A	ug/g
		1 BLNK-PREP			QIC-01 PO4-02	SOLID		<65.5 65.5	N/A	ug/g
		1 BLNK-PREP			QIC-01 SO4-02	SOLID		<74.5 74.5	N/A	ug/g
		1 BLNK-PREP			QIC-01 OXALATE2	SOLID		<53.3 53.3	N/A	ug/g
		2 STD			QIC-01 F-02	SOLID	59	62	N/A	ug/g
		2 STD			QIC-01 CL-02	SOLID	79	80.4	N/A	ug/g
		2 STD			QIC-01 NO2-02	SOLID	534	545	N/A	ug/g
		2 STD			QIC-01 BR-02	SOLID	575	588	N/A	ug/g
		2 STD			QIC-01 NO3-02	SOLID	614	634	N/A	ug/g
		2 STD			QIC-01 PO4-02	SOLID	546	582	N/A	ug/g
		2 STD			QIC-01 SO4-02	SOLID	631	652	N/A	ug/g
		2 STD			QIC-01 OXALATE2	SOLID	526	544	N/A	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 F-02	SOLID	N/A	4.60E03	6.12E2	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 CL-02	SOLID	N/A	1.77E03	3.19E2	ug/g

Data Entry Comments:

S95T001831

Sample
10.2400g/L

Dup
10.3400g/L

S95T001832

10.1700

10.2810

Todd, The prep blank calculated NO₃ at ~.8 ppm, however the concentration is less than the lowest standard. Use the less than value.
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, JMF
R = Replicate Number, A = Aliquot Code.

207.44

LABCORE Data Entry Template for Worklist#

2598

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 NO2-02	SOLID	N/A	40 ^{EO3} 55.7	5.40 ^{EO3}	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 BR-02	SOLID	N/A	10185 ^{EO3} 56.23	6.23 ^{EO3}	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 NO3-02	SOLID	N/A	2.83 ^{EO5}	6.89 ^{EO3}	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 PO4-02	SOLID	N/A	2.26 ^{EO4}	5.88 ^{EO3}	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 SO4-02	SOLID	N/A	2.23 ^{EO4} 2.46 ^{EO4}	6.69 ^{EO3}	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 OXALATE2	SOLID	N/A	4.39 ^{EO3}	4.89 ^{EO3}	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 F-02	SOLID	4.60 ^{EO3}	4.63 ^{EO3}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 CL-02	SOLID	1.77 ^{EO3}	1.86 ^{EO3}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 NO2-02	SOLID	55.40 ^{EO3}	55.37 ^{EO3}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 BR-02	SOLID	56.23 ^{EO3}	56.11 ^{EO3}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 NO3-02	SOLID	2.83 ^{EO5}	2.86 ^{EO5}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 PO4-02	SOLID	2.26 ^{EO4}	2.22 ^{EO4}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 SO4-02	SOLID	2.23 ^{EO4} 2.46 ^{EO4}	2.24 ^{EO4}	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 OXALATE2	SOLID	4.39 ^{EO3}	4.34 ^{EO3}	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 CL-02	SOLID	100	106.2	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 F-02	SOLID	100	96.4	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 NO2-02	SOLID	100	106.43	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 BR-02	SOLID	100	100.86	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 NO3-02	SOLID	100	100.57	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 PO4-02	SOLID	100	104.67	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 SO4-02	SOLID	100	100.3	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.45

LABCORE Data Entry Template for Worklist#

2598

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	OXALATE2	SOLID	100	103.2	N/A ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	F-02	SOLID	N/A	6.58 ^{EO3}	6.16 ^{EO2} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	CL-02	SOLID	N/A	1.80 ^{EO3}	8.24 ^{EO2} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	NO2-02	SOLID	N/A	55.43 ^{EO3}	5.43 ^{EO3} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	BR-02	SOLID	N/A	6.28 ^{EO3}	6.28 ^{EO3} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	NO3-02	SOLID	N/A	2.69 ^{EO5}	6.94 ^{EO3} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	PO4-02	SOLID	N/A	2.17 ^{EO3}	5.12 ^{EO3} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	SO4-02	SOLID	N/A	2.34 ^{EO1}	6.13 ^{EO3} ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	OXALATE2	SOLID	N/A	4.92 ^{EO3}	4.92 ^{EO3} ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	F-02	SOLID	6.58 ^{EO3}	6.44 ^{EO3}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	CL-02	SOLID	1.80 ^{EO3}	1.72 ^{EO3}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	NO2-02	SOLID	55.43 ^{EO3}	5.43 ^{EO3}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	BR-02	SOLID	6.28 ^{EO3}	6.28 ^{EO3}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	NO3-02	SOLID	2.69 ^{EO3}	2.70 ^{EO5}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	PO4-02	SOLID	2.17 ^{EO1}	2.17 ^{EO1}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	SO4-02	SOLID	2.34 ^{EO1}	2.34 ^{EO1}	N/A ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	OXALATE2	SOLID	4.92 ^{EO3}	4.92 ^{EO3}	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	QIC-01	CL-02	SOLID	100	103.2	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	QIC-01	F-02	SOLID	100	86.6	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	QIC-01	NO2-02	SOLID	100	107.5	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	QIC-01	BR-02	SOLID	100	101.6	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	QIC-01	NO3-02	SOLID	100	101.3	N/A ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.46

LABCORE Data Entry Template for Worklist#

2598

ROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	8 SPK	S95T001832	0 W	01C-01	P04-02	SOLID	100	106.2	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	01C-01	S04-02	SOLID	100	106.0	N/A ug/g
95000085	B-104	8 SPK	S95T001832	0 W	01C-01	OXALATE2	SOLID	100	105.0% gmf 104.9	N/A ug/g

Final page for worklist # 2598

RM McCann 9/28/95
Analyst Signature Date

JA
Analyst Signature Date

Data Entry Comments:

We will have to remove the Br on this
worklist, our L value is too high - gmf.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

207,47

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: Prep Bik & S95T001831 & S95T001832
TEST CODE: @lc-01
INSTRUMENT: lc01
WORK LIST #: 2598
BATCH ID:

ANALYST: Pat McCown
ANALYSIS DATE: 09/28/95
SAMPLE POINT: B-104
SAMPLE PREP: water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9D		105.1%	101.8%	102.0%	103.3%	106.6%	103.3%	102.2%	103.4%
Prep Bik		<68.20	<91.30	<601.70	<768.90	<655.60	<745.80	<695.20	<545.60
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001831		4.60E+03	1.77E+03	<5395.21	2.83E+05	2.25E+04	2.23E+04	<6233.59	<4892.19
S95T001831dup		4.63E+03	1.86E+03	<5343.04	2.86E+05	2.22E+04	2.24E+04	<6173.31	<4844.87
Duplicate 2 RPD		0.7%	4.8%	N/A	1.1%	1.3%	0.6%	N/A	N/A
S95T001832		6.58E+03	1.80E+03	<5432.35	2.69E+05	2.18E+04	2.34E+04	<6276.50	<4925.86
S95T001832dup		6.43E+03	1.72E+03	<5373.70	2.70E+05	2.17E+04	2.29E+04	<6208.73	<4872.68
Duplicate 3 RPD		2.3%	4.4%	N/A	0.2%	0.5%	2.1%	N/A	N/A
S95T001832epk		85.8%	103.8%	107.5%	101.8%	106.2%	106.0%	101.5%	105.0%

NARRATIVE:**Analyst Comments:****Chemist Comments:**

Form Completed By:

Date:

Chemist Approval:

Date:

207.48

LAB LEADER INFO	
Method:	LA-533-106 d-1
Matrix:	soil
Test Code:	06e-01
Work List #:	2899
Batch #:	
Result Units	µg/g
(µg/g or µg/mL):	
Spills Book Number:	100490
Spills Sample #:	3
Prepared By:	Jenn Frye
Prepared Date:	10/02/06
Chemist:	Jenn Frye
Analyte:	Pot McCown
Analyte Date:	08/29/06
Time Complete:	11:20 PM
Instrument Code:	ic01
Barium:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	100490
SAMPLE 1	Prop BR
DUPLICATE 1	
SAMPLE 2	896T001ES1
DUPLICATE 2	896T001ES1dup
SAMPLE 3	896T001ES2
DUPLICATE 3	896T001ES2dup
SAMPLE 4	
DUPLICATE 4	
SPRKE	896T001ES2spk
SPRKE DUPLICATE	



TECH INFO									
Blank Data (µg/mL)	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
	<0.062	<0.063	<0.647	<0.889	<0.886	<0.678	<0.632	<0.496	
Standard Data (µg/mL)	62	80.4	844.9	834.1	881.9	661.6	887.7	643.7	
Sample 1 Data (µg/mL)	<0.062	<0.063	<0.647	<0.889	<0.886	<0.678	<0.632	<0.496	
Sample 1 Dilution Factor	11	11	11	11	11	11	11	11	
Sample 1 Prep DF	10	10	10	10	10	10	10	10	
Duplicate 1 Data (µg/mL)									
Duplicate 1 Dilution Factor									
Duplicate 1 Prep DF									
Sample 2 Data (µg/mL)	4.71E+01	1.81E+01	<0.647	2.90E+03	2.51E+02	2.28E+02	<0.632	<0.496	
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101	
Sample 2 Prep DF	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	
Duplicate 2 Data (µg/mL)	4.70E+01	1.82E+01	<0.647	2.90E+03	2.50E+02	2.32E+02	<0.632	<0.496	
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101	
Duplicate 2 Prep DF	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	
Sample 3 Data (µg/mL)	6.89E+01	1.83E+01	<0.647	2.74E+03	2.51E+02	2.38E+02	<0.632	<0.496	
Sample 3 Dilution Factor	101	101	101	101	101	101	101	101	
Sample 3 Prep DF	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17	
Duplicate 3 Data (µg/mL)	6.81E+01	1.77E+01	<0.647	2.77E+03	2.53E+02	2.36E+02	<0.632	<0.496	
Duplicate 3 Dilution Factor	101	101	101	101	101	101	101	101	
Duplicate 3 Prep DF	10.291	10.291	10.291	10.291	10.291	10.291	10.291	10.291	
Sample 4 Data (µg/mL)									
Sample 4 Dilution Factor									
Sample 4 Prep DF									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Dilution Factor									
Duplicate 4 Prep DF									
Spills + Sample 3 (µg/mL)	1.10E+02	1.00E+02	8.74E+02	3.36E+03	8.01E+02	9.07E+02	5.84E+02	5.52E+02	
Spills + Dup 3 (µg/mL)									
Spills Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	
Std. Cons. (µg/mL)	89	79	624	614	648	631	676	628	
Detection Limit	0.062	0.063	0.647	0.889	0.886	0.678	0.632	0.496	
Matrix Detection Limit 1	8.32E+01	8.13E+01	6.02E+02	7.68E+02	6.44E+02	7.46E+02	6.86E+02	6.40E+02	
Matrix Detection Limit 2	8.12E+02	8.10E+02	6.40E+03	6.89E+03	6.88E+03	6.89E+03	6.23E+03	4.89E+03	
Matrix Detection Limit 3	6.10E+02	8.24E+02	5.42E+03	6.94E+03	5.92E+03	6.73E+03	6.28E+03	4.93E+03	
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

Spills Recovery = (Spills+Sample)/Sample*(Total Volume)/(Spills Vol)*(Spills Std)/Sample DF*100%

Notes: For spills recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.

Duplicate Relative % Difference = (Duplicate - Duplicate) / (Duplicate + Duplicate) / 2 * 100%

Less than Values are Calculated from the Detection Limit/Dilution Factor

V RESULTS v									
Standard % Recovery	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Sample 1 in 101%	100.1%	101.8%	102.0%	103.3%	106.3%	103.3%	102.3%	103.4%	
Sample 1 in 101%	<0.062	<0.063	<0.647	<0.889	<0.886	<0.678	<0.632	<0.496	
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Sample 2 in 101%	4.80E+03	1.77E+03	<0.647	2.83E+03	2.52E+04	2.23E+04	<0.632	<0.496	
Duplicate 2 in 101%	4.63E+03	1.80E+03	<0.647	2.86E+03	2.22E+04	2.24E+04	<0.632	<0.496	
Duplicate 2 RPD	3.7%	4.6%	N/A	1.1%	0.6%	0.6%	N/A	N/A	
Sample 3 in 101%	1.00E+03	1.00E+03	<0.647	2.83E+03	2.52E+04	2.23E+04	<0.632	<0.496	
Duplicate 3 in 101%	8.43E+03	1.72E+03	<0.647	2.76E+03	2.17E+04	2.29E+04	<0.632	<0.496	
Duplicate 3 RPD	2.3%	4.6%	N/A	0.2%	0.6%	2.1%	N/A	N/A	
Spills % Recovery	81.3%	103.8%	107.8%	101.8%	106.3%	100.3%	101.8%	100.0%	

Date Entry by:	Jenn Frye	Date:	10/02/06
Approved by:	Jenn Frye	Date:	10/02/06
Form 100490 Rev. 1.3			

207.49

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: Prep Blk & S95T001831 & S95T001832
TEST CODE: @lc-01
INSTRUMENT: lc01
WORK LIST #: 2598
BATCH ID:

ANALYST: Pat McCown
ANALYSIS DATE: 09/28/95
SAMPLE POINT: B-104
SAMPLE PREP: water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9D		106.1%	101.6%	102.0%	103.3%	106.6%	103.3%	102.2%	103.4%
Prep Blk		<68.20	<91.30	<601.70	<768.90	<655.60	<745.80	<695.20	<545.60
		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
ERR		ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
S95T001831		4.60E+03	1.77E+03	<5395.21	2.83E+05	2.25E+04	2.23E+04	<6233.59	<4892.19
S95T001831dup		4.63E+03	1.86E+03	<5343.04	2.86E+05	2.22E+04	2.24E+04	<6173.31	<4844.87
Duplicate 2 RPD		0.7%	4.6%	N/A	1.1%	1.3%	0.6%	N/A	N/A
S95T001832		6.58E+03	1.80E+03	<5432.36	2.69E+05	2.18E+04	2.34E+04	<6276.50	<4925.86
S95T001832dup		6.43E+03	1.72E+03	<5373.70	2.70E+05	2.17E+04	2.29E+04	<6208.73	<4872.68
Duplicate 3 RPD		2.3%	4.4%	N/A	0.2%	0.5%	2.1%	N/A	N/A
S95T001831spk		96.9%	105.5%	106.3%	100.7%	104.7%	104.1%	100.6%	103.3%

NARRATIVE:**Analyst Comments:****Chemist Comments:**

Form Completed By:

Pat McCown

Date:

10/13/95

Chemist Approval:

Pat McCown

Date:

10/2/95

207.50

LAB LEADER INFO	
Method:	LA-833-108 d-1
Matrix:	Gold
Test Code:	01a-01
Work List #:	2508
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spikes Stock Number:	100490
Spikes Sample #:	2
Prepared By:	Jean Fyfe
Prepared Date:	10/02/96
Chemist:	Jean Fyfe
Analyte:	Potassium
Analysis Date:	09/28/96
Time Complete:	11:20 PM
Instrument Code:	1c01
Reagent:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	100490
SAMPLE 1	Prop Blk
DUPLICATE 1	
SAMPLE 2	S95T001531
DUPLICATE 2	S95T001531dup
SAMPLE 3	S95T001532
DUPLICATE 3	S95T001532dup
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001531spk
SPIKE DUPLICATE	

TECH INFO									
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Blank Data (µg/mL)	<0.002	<0.003	<0.047	<0.899	<0.898	<0.878	<0.832	<0.496	
Standard Data (µg/mL)	62	90.4	644.9	634.1	881.9	861.6	887.7	643.7	
Sample 1 Data (µg/mL)	<0.002	<0.003	<0.047	<0.899	<0.898	<0.878	<0.832	<0.496	
Sample 1 Dilution Factor	11	11	11	11	11	11	11	11	11
Sample 1 Prop DF	10	10	10	10	10	10	10	10	10
Duplicate 1 Data (µg/mL)									
Duplicate 1 Dilution Factor									
Duplicate 1 Prop DF									
Sample 2 Data (µg/mL)	4.71E+01	1.81E+01	<0.047	2.90E+03	2.31E+02	2.28E+02	<0.832	<0.496	
Sample 2 Dilution Factor	101	101	101	101	101	101	101	101	101
Sample 2 Prop DF	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24
Duplicate 2 Data (µg/mL)	4.79E+01	1.82E+01	<0.047	2.94E+03	2.30E+02	2.32E+02	<0.832	<0.496	
Duplicate 2 Dilution Factor	101	101	101	101	101	101	101	101	101
Duplicate 2 Prop DF	10.34	10.34	10.34	10.34	10.34	10.34	10.34	10.34	10.34
Sample 3 Data (µg/mL)	6.88E+01	1.32E+01	<0.047	2.74E+03	2.21E+02	2.38E+02	<0.832	<0.496	
Sample 3 Dilution Factor	101	101	101	101	101	101	101	101	101
Sample 3 Prop DF	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
Duplicate 3 Data (µg/mL)	6.81E+01	1.77E+01	<0.047	2.77E+03	2.23E+02	2.36E+02	<0.832	<0.496	
Duplicate 3 Dilution Factor	101	101	101	101	101	101	101	101	101
Duplicate 3 Prop DF	10.281	10.281	10.281	10.281	10.281	10.281	10.281	10.281	10.281
Sample 4 Data (µg/mL)									
Sample 4 Dilution Factor									
Sample 4 Prop DF									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Dilution Factor									
Duplicate 4 Prop DF									
Spikes + Sample 2 (µg/mL)	1.04E+02	1.02E+02	6.88E+02	3.51E+03	8.02E+02	8.86E+02	8.79E+02	6.43E+02	
Spikes + Dup 2 (µg/mL)									
Spikes Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	88	79	834	689	646	878	875	528	
Detection Limit	0.002	0.003	0.047	0.899	0.898	0.878	0.832	0.496	
Matrix Detection Limit 1	6.82E+01	8.13E+01	8.02E+02	7.69E+02	8.86E+02	7.48E+02	6.96E+02	8.48E+02	
Matrix Detection Limit 2	6.12E+02	8.19E+02	8.40E+03	8.89E+03	8.98E+03	8.69E+03	8.23E+03	4.89E+03	
Matrix Detection Limit 3	6.10E+02	8.24E+02	8.49E+03	8.94E+03	8.92E+03	8.73E+03	8.28E+03	4.93E+03	
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spikes Recovery = (Spikes+Sample)/(Total Volume) * 100% (Spikes 88.7, Sample 88.7, Sample DF 100%)

Note: For spike recovery when the sample conc. is less than detection limit you do NOT submit sample concs.

Duplicate Relative % Difference = (Duplicate - Duplicate) / (Duplicate + Duplicate) * 100%

Limit Test Volume was Calculated from the Detection Limit/Dilution Factor

v RESULTS v									
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate	
Standard % Recovery	100.1%	101.1%	102.0%	103.3%	104.8%	103.3%	102.2%	103.4%	
Sample 1 in 100% ERR	<0.002	<0.003	<0.047	<0.899	<0.898	<0.878	<0.832	<0.496	
Sample 1 in 100% ERR									
Sample 2 in 100%	4.69E+01	1.77E+01	<0.047	2.93E+03	2.21E+02	2.23E+02	<0.832	<0.496	
Duplicate 2 in 100%	4.63E+01	1.82E+01	<0.047	2.94E+03	2.22E+02	2.24E+02	<0.832	<0.496	
Duplicate 2 Prop DF	8.7%	4.8%	4.8%	N/A	1.3%	1.3%	N/A	N/A	
Sample 3 in 100%	6.82E+01	1.80E+01	<0.047	2.88E+03	2.18E+02	2.34E+02	<0.832	<0.496	
Duplicate 3 in 100%	6.43E+01	1.72E+01	<0.047	2.70E+03	2.17E+02	2.29E+02	<0.832	<0.496	
Duplicate 3 Prop DF	2.3%	4.6%	4.6%	N/A	0.3%	0.3%	N/A	N/A	
Spikes % Recovery	88.3%	100.3%	100.3%	100.7%	100.7%	100.1%	100.8%	100.3%	

Date Entry By:	Jean Fyfe	Date:	10/02/96
Approved By:	Jean Fyfe	Date:	10/02/96
Form LDCM-0108 Rev. 1.3			

207.51

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Sample Name: WL 2598 BLANK                      Date: 09/28/1995 18:24:46
Data File  : C:\DX\DATA\95092821.D01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 1           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200

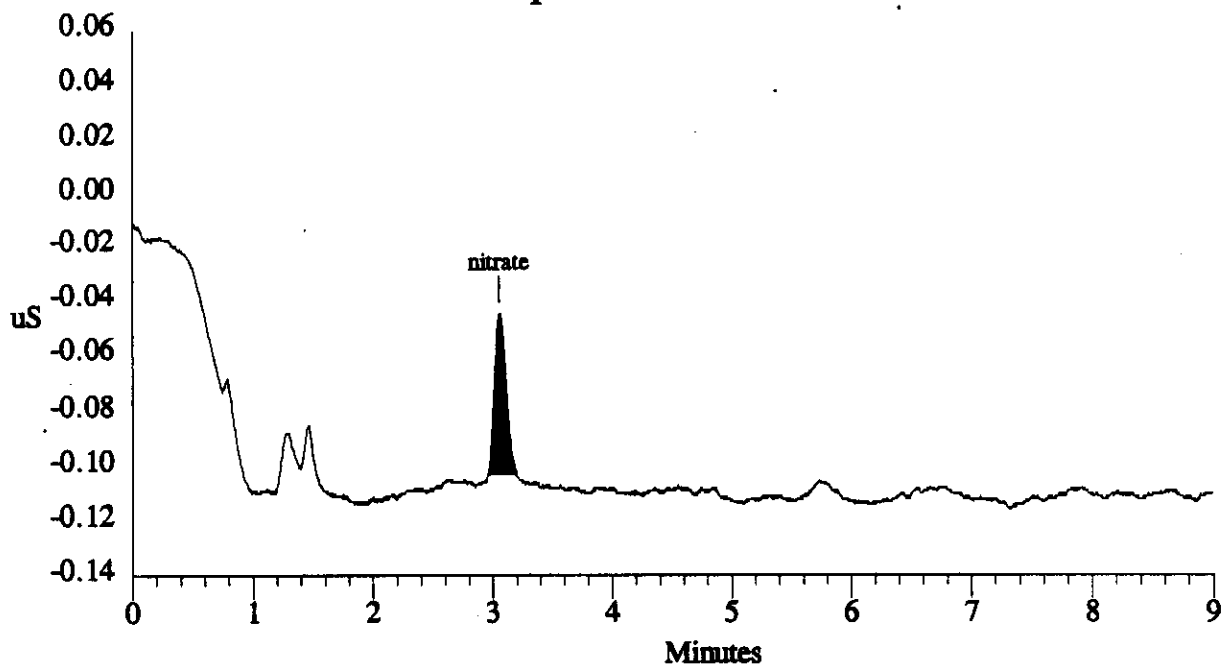
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.05	nitrate	0.080	59	401	1	-0.97
Totals			0.080	59	401		

INITIAL BLANK DIRECT ELUENT *RMCCorn* 9/28/95

File: 95092821.D01 Sample: WL 2598 BLANK



WHO-83-WM-OP-132, REV. 1

207,52

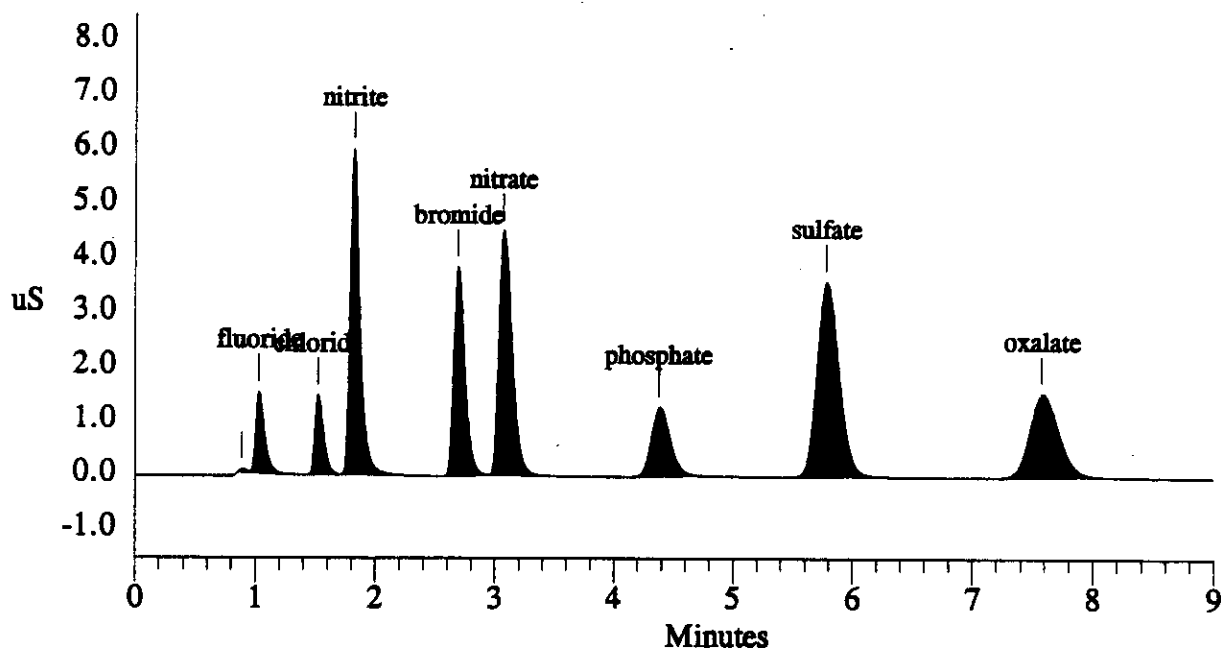
Sample Name: 106N9D LMCS Date: 09/28/1995 18:58:52
 Data File : C:\DX\DATA\95092821.D02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	60	239	2	
2	1.03	fluoride	62.037	1516	7806	2	-2.83
3	1.52	chloride	80.453	1481	7660	1	0.00
4	1.82	nitrite	544.937	5983	34830	1	0.00
5	2.69	bromide	587.696	3845	25150	1	-0.37
6	3.07	nitrate	634.151	4495	35049	1	-0.32
7	4.38	phosphate	581.942	1287	14583	1	-2.23
8	5.78	sulfate	651.673	3599	46651	1	-2.20
9	7.58	oxalate	543.759	1560	26430	1	-2.57
Totals			3686.648	23826	198398		

-100ML -10ML *McLown* 9/28/95
 File: 95092821.D02 Sample: 106N9D LMCS



WHO-SD-WM-OP-132, REV. 1

207.53

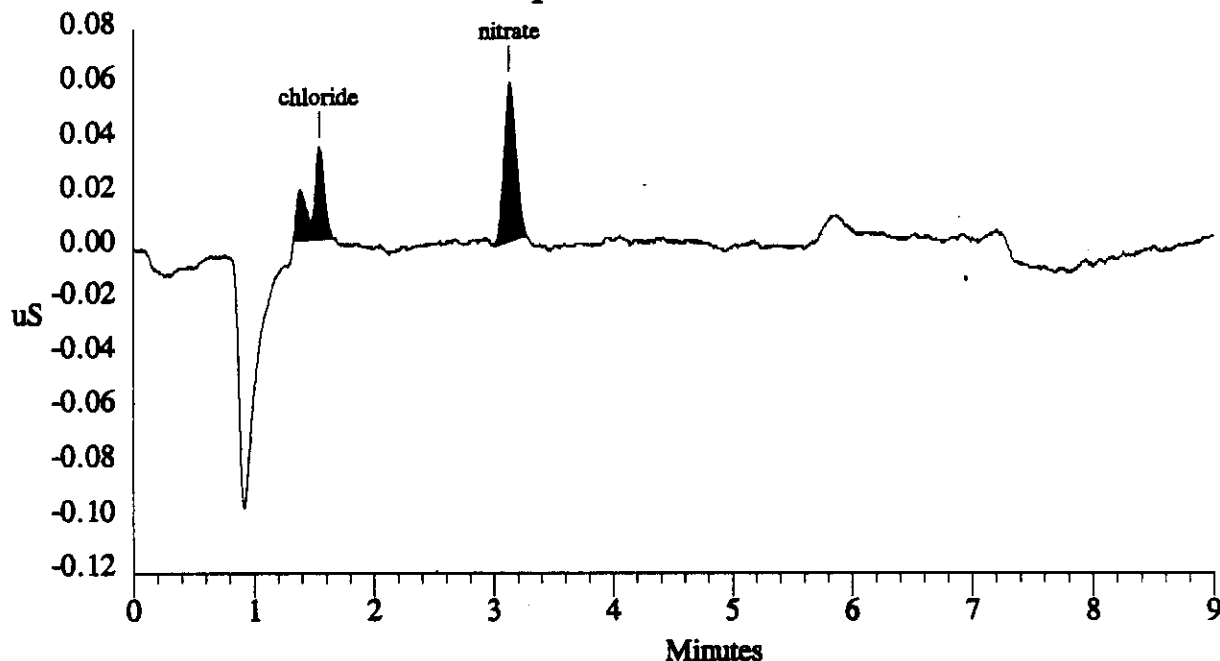
Sample Name: WL 2598 PREP BLK Date: 09/28/1995 19:39:59
 Data File : C:\DX\DATA\95092821.D03
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.54	chloride	-0.093	33	284	1	1.32
2	3.13	nitrate	0.897	58	407	1	1.62
Totals			0.804	92	691		

RL McCowan 9/28/95 1mL - 10mL
 File: 95092821.D03 Sample: WL 2598 PREP BLK



WHC-SD-WM-DP-132, REV. 1

207, 54

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Sample Name: S95T001831 SAM Date: 09/28/1995 20:21:19
Data File : C:\DX\DATA\95092821.D06
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
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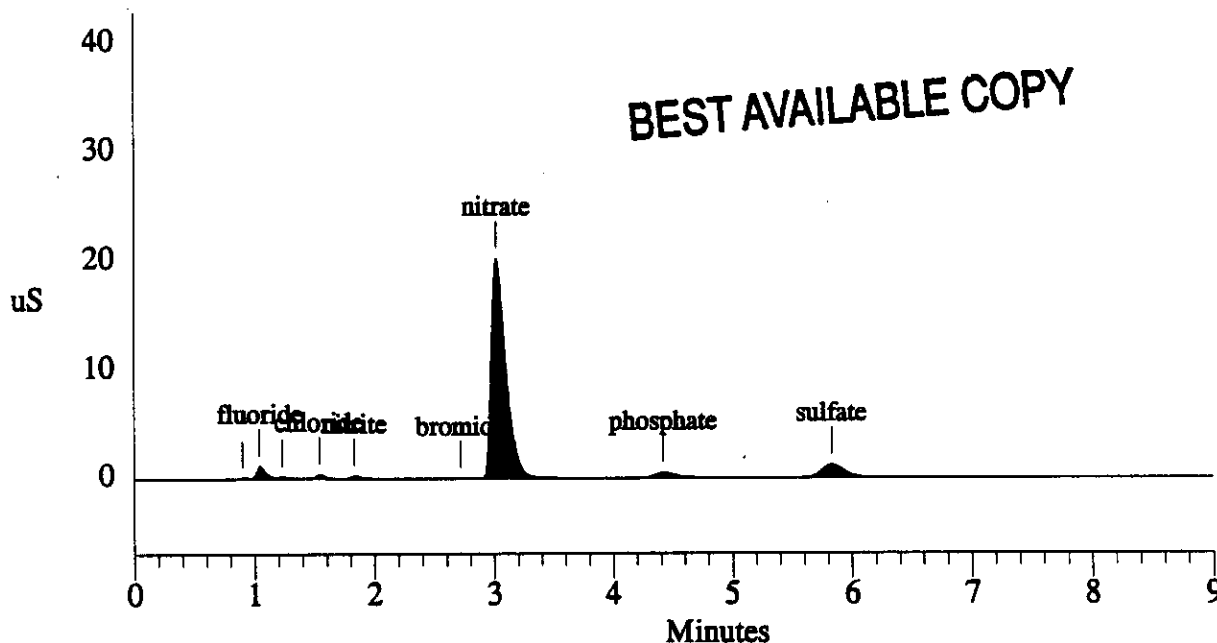
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 101 2700 5Hz 0.00 9.00 200
-----

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***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	47.140	1143	5891	3	-1.89
3	1.23		0.000	133	549	4	
4	1.54	chloride	18.121	394	1984	1	1.32
5	1.83	nitrite	27.654	244	1390	1	0.55
6	2.72	bromide	19.581	34	208	1	0.74
7	3.02	nitrate	2896.807	20202	173136	1	-1.95
8	4.42	phosphate	230.768	480	5437	1	-1.34
9	5.83	sulfate	228.135	1228	15886	1	-1.35
Totals			3468.206	23858	204480		

.100ML - 10ML *R. McLown* 9/28/95
File: 95092821.D06 Sample: S95T001831 SAM



WHO-CD-WM-OP- 137, REV. 1

207.55

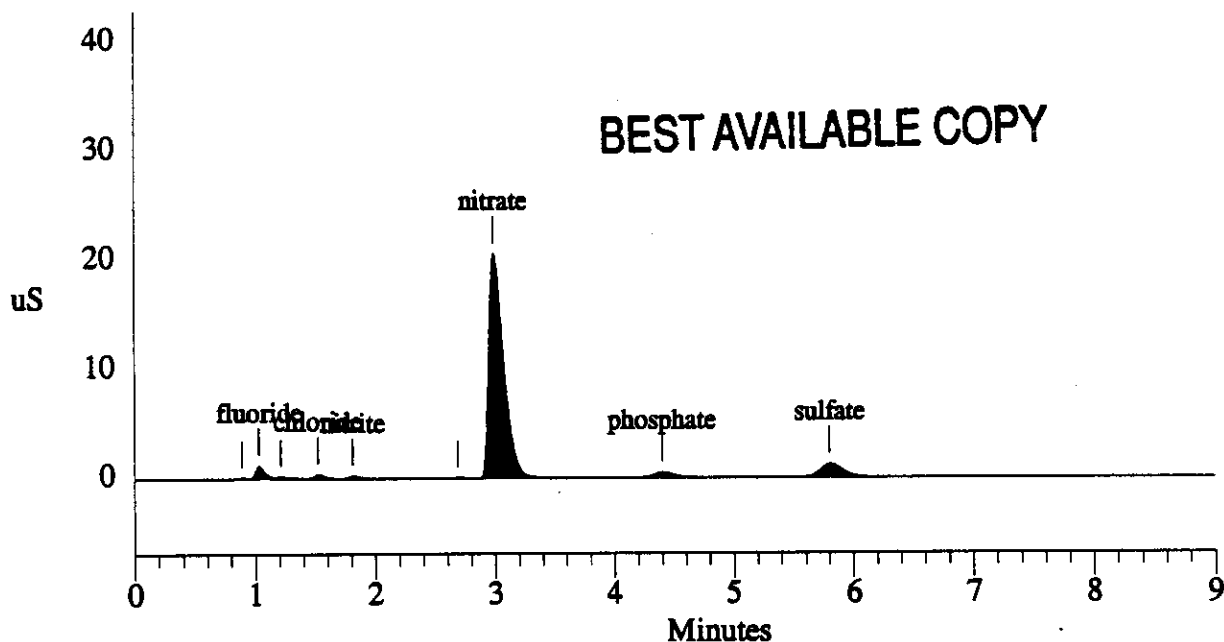
Sample Name: S95T001831 DUP Date: 09/28/1995 20:39:18
 Data File : C:\DX\DATA\95092821.D07
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	47.924	1175	5991	3	-2.83
3	1.21		0.000	154	743	4	
4	1.52	chloride	19.259	412	2086	1	0.00
5	1.81	nitrite	28.100	251	1419	1	-0.55
7	2.99	nitrate	2958.702	20601	177262	1	-2.92
8	4.40	phosphate	229.994	486	5417	1	-1.79
9	5.80	sulfate	231.623	1233	16136	1	-1.86
Totals			3515.603	24312	209054		

R. McCoun 9/28/95 .100mL - 10mL
File: 95092821.D07 Sample: S95T001831 DUP



WHC-00-WM-0P-137, REV. 1

Sample Name: S95T001831 SPIKE Date: 09/28/1995 20:52:22
 Data File : C:\DX\DATA\95092821.D08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

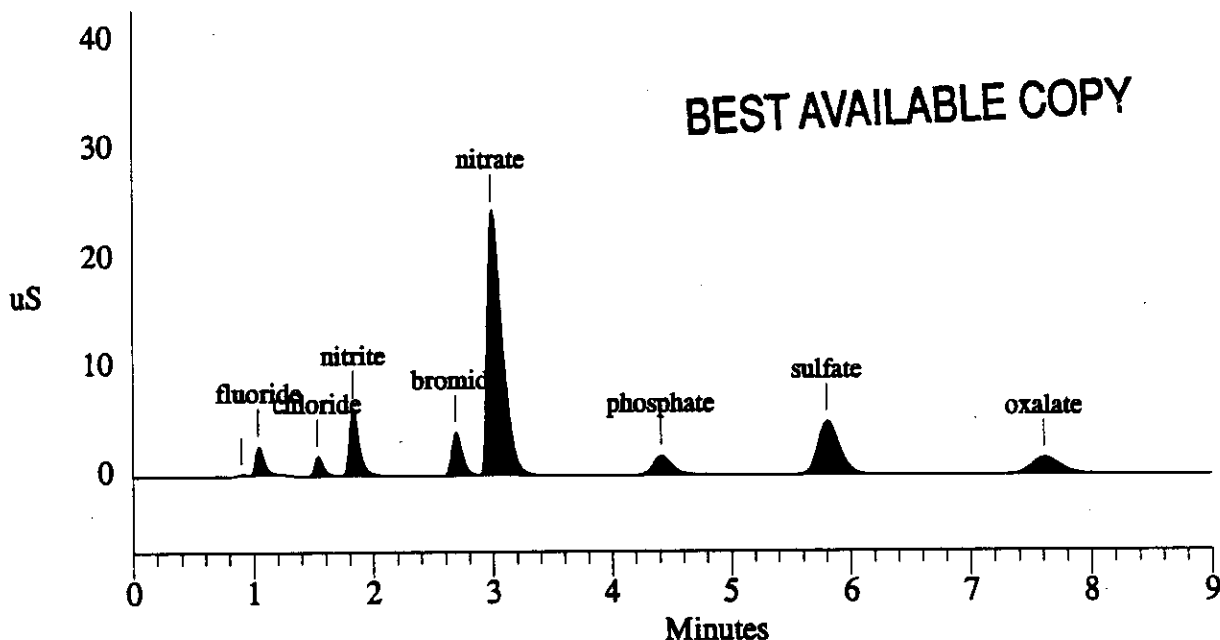
***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	69	230	1	
2	1.04	fluoride	103.734	2644	13267	1	-1.89
3	1.53	chloride	101.547	1826	9615	1	0.66
4	1.83	nitrite	567.537	6264	36315	1	0.55
5	2.69	bromide	578.690	3992	24748	1	-0.37
6	2.99	nitrate	3514.020	24279	215326	1	-2.92
7	4.41	phosphate	802.194	1824	20447	1	-1.56
8	5.80	sulfate	885.106	4932	63977	1	-1.86
9	7.61	oxalate	543.294	1561	26406	1	-2.19

Totals 7096.122 47390 410331

• 100ML - < 9.9 ML ELUENT
 • 100ML STD # 106N9D AS SARE R McCoam 9/28/95

File: 95092821.D08 Sample: S95T001831 SPIKE



WMO-SD-WM-OP-137, REV. 1

207.57

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Sample Name: S95T001832 SAM                      Date: 09/28/1995 22:32:14
Data File  : C:\DX\DATA\95092821.D10
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10              Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
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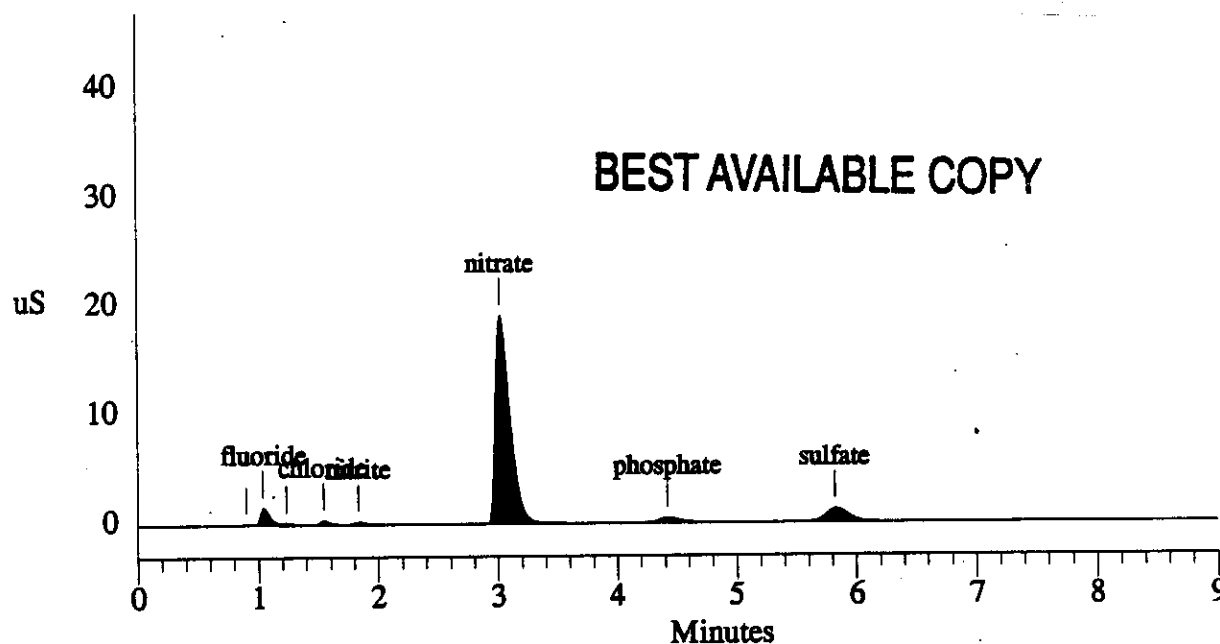
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	66.894	1549	8434	3	-1.89
3	1.23		0.000	147	737	4	
4	1.54	chloride	18.307	394	2000	1	1.32
5	1.83	nitrite	28.491	253	1443	1	0.55
6	3.02	nitrate	2738.220	19104	162663	1	-1.95
7	4.42	phosphate	221.493	467	5199	1	-1.34
8	5.82	sulfate	238.190	1269	16607	1	-1.52
Totals			3311.595	23183	197084		

.100ML - 10ML R. McCown 9/28/95
File: 95092821.D10 Sample: S95T001832 SAM



WHC-SD-WM-DP-137, REV. 1

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Sample Name: S95T001832 DUP	Date: 09/28/1995 22:42:30
Data File : C:\DX\DATA\95092821.D11	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 11	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS

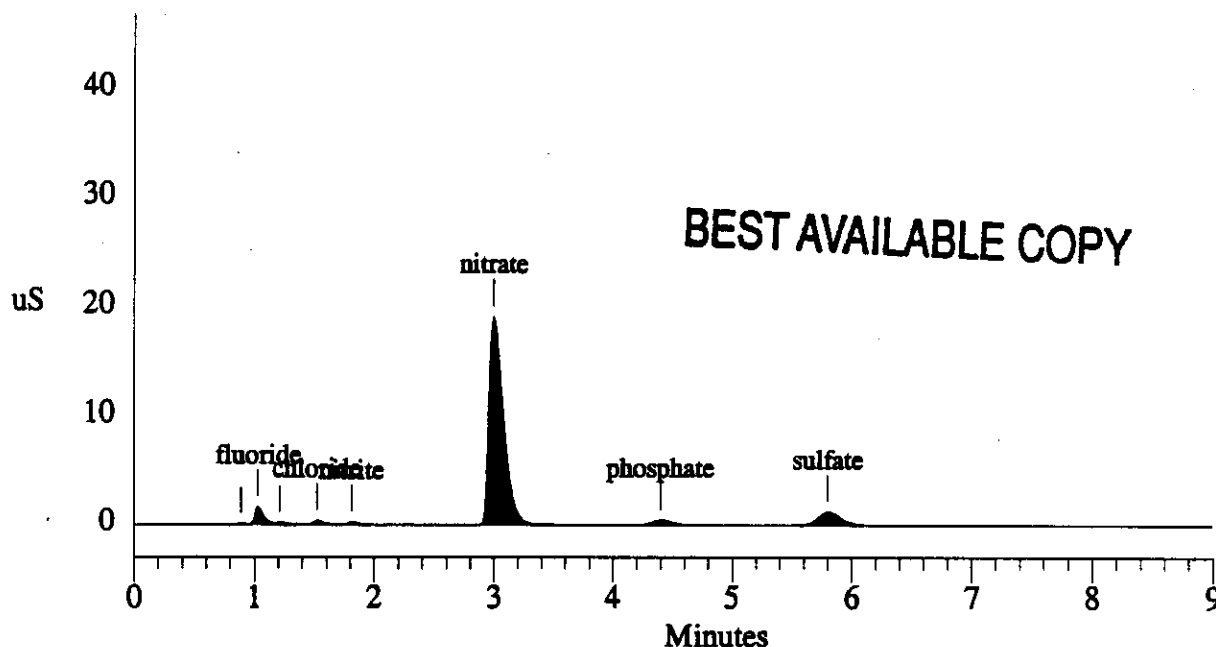
=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	66.164	1627	8340	3	-2.83
3	1.21		0.000	152	790	4	
4	1.52	chloride	17.709	386	1947	1	0.00
5	1.81	nitrite	28.895	255	1469	1	-0.55
6	3.00	nitrate	2773.759	19184	164997	1	-2.60
7	4.40	phosphate	222.727	465	5231	1	-1.79
8	5.80	sulfate	235.903	1258	16443	1	-1.86
Totals			3345.158	23327	199217		

.100mL - 10mL R. McCown 9/28/95
 File: 95092821.D11 Sample: S95T001832 DUP



WHC-03-WM-OP-137, REV. 1

207.53

Sample Name: S95T001832 SPIKE Date: 09/28/1995 23:01:17
 Data File : C:\DX\DATA\95092821.D12
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

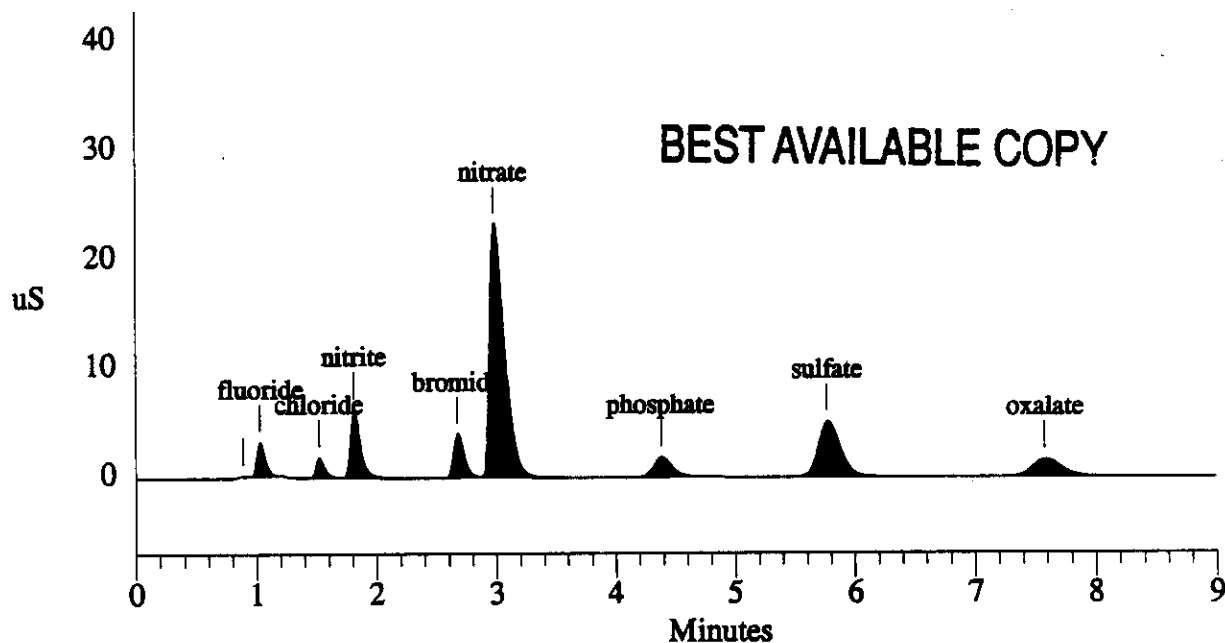
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	70	210	1	
2	1.03	fluoride	117.567	3098	15113	1	-2.83
3	1.52	chloride	100.310	1855	9500	1	0.00
4	1.81	nitrite	574.334	6261	36761	1	-0.55
5	2.67	bromide	583.836	3913	24978	1	-1.11
6	2.98	nitrate	3363.082	23196	204786	1	-3.25
7	4.38	phosphate	801.204	1823	20421	1	-2.23
8	5.77	sulfate	906.826	5059	65604	1	-2.37
9	7.58	oxalate	552.484	1584	26876	1	-2.57

Totals 6999.643 46859 404249
.100mL - < 9.9mL ELUENT
.100mL STD # 10649D AS SPIKE BJ McCown 9/28/95

File: 95092821.D12 Sample: S95T001832 SPIKE



WHC-SD-WMA-DP-137, REV. 1

207.80

09/26/95 15:34

LABCORE Data Entry Template for Worklist#

2599

Analyst: SMF Instrument: IC01 IC01 Book # 106N9DMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC, Need Br, digest weights very low for these. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				01C-01 F-02	SOLID	<u>1</u>	<u><.062</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 CL-02	SOLID	<u>1</u>	<u><.083</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 NO2-02	SOLID	<u>1</u>	<u><.547</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 BR-02	SOLID	<u>1</u>	<u><.632</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 NO3-02	SOLID	<u>1</u>	<u><.699</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 PO4-02	SOLID	<u>1</u>	<u><.596</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 SO4-02	SOLID	<u>1</u>	<u><.678</u>	<u>N/A</u>	ug/g
		1	BLNK-PREP				01C-01 OXALATE2	SOLID	<u>1</u>	<u><.496</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 F-02	SOLID	<u>59</u>	<u>60.5</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 CL-02	SOLID	<u>79</u>	<u>78.04</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 NO2-02	SOLID	<u>534</u>	<u>546.6</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 BR-02	SOLID	<u>575</u>	<u>589.2</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 NO3-02	SOLID	<u>614</u>	<u>611.05</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 PO4-02	SOLID	<u>546</u>	<u>576.05</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 SO4-02	SOLID	<u>631</u>	<u>641.1</u>	<u>N/A</u>	ug/g
		2	STD				01C-01 OXALATE2	SOLID	<u>526</u>	<u>530.1</u>	<u>N/A</u>	ug/g
95000085	B-104	3	SAMPLE	S95T001827	0	W	01C-01 F-02	SOLID	<u>N/A</u>	<u>8.4e3</u>	<u>1.0e2</u>	ug/g
95000085	B-104	3	SAMPLE	S95T001827	0	W	01C-01 CL-02	SOLID	<u>N/A</u>	<u>3.42e3</u>	<u>1.34e2</u>	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.61

09/26/95 15:34

LABCORE Data Entry Template for Worklist#

2599

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	NO2-02	SOLID	N/A	3.51e3	8.82e2 ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	BR-02	SOLID	N/A	1.76e3	1.76e3 ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	NO3-02	SOLID	N/A	4.51e5	1.14e5 ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	PO4-02	SOLID	N/A	4.01e4	9.61e2 ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	SO4-02	SOLID	N/A	4.21e4	1.09e3 ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01	OXALATE2	SOLID	N/A	8.00e2	8.00e2 ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	F-02	SOLID	8.9e3	8.78e3	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	CL-02	SOLID	3.42e3	3.41e3	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	NO2-02	SOLID	3.51e3	3.50e3	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	BR-02	SOLID	1.76e3	1.76e3	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	NO3-02	SOLID	4.51e5	5.02e5	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	PO4-02	SOLID	4.01e4	4.75e4	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	SO4-02	SOLID	4.21e4	3.91e4	N/A ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01	OXALATE2	SOLID	8.00e2	8.00e2	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	CL-02	SOLID	100	103.3	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	F-02	SOLID	100	35.9	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	NO2-02	SOLID	100	104.1	9mf 9/26/95 N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	BR-02	SOLID	100	103.4	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	NO3-02	SOLID	100	108.5	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	PO4-02	SOLID	100	95.8	N/A ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	SO4-02	SOLID	100	104.9	N/A ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

207.62

LABCORE Data Entry Template for Worklist#

2599

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01	OXALATE2	SOLID	100	101.0	N/A ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	F-02	SOLID	N/A	4.74e3	1.87e2 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	CL-02	SOLID	N/A	2.10e3	2.50e2 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	NO2-02	SOLID	N/A	2.48e3	1.65e3 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	BR-02	SOLID	N/A	1.90e3	1.90e3 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	NO3-02	SOLID	N/A	2.72e5	1.93e4 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	PO4-02	SOLID	N/A	2.58e4	1.80e3 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	SO4-02	SOLID	N/A	2.63e4	2.04e3 ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	QIC-01	OXALATE2	SOLID	N/A	1.49e3	1.49e3 ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	F-02	SOLID	4.74e3	5.46e3	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	CL-02	SOLID	2.10e3	2.16e3	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	NO2-02	SOLID	2.48e3	2.57e3	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	BR-02	SOLID	1.90e3	1.90e3	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	NO3-02	SOLID	2.72e5	2.80e5	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	PO4-02	SOLID	2.58e4	2.70e4	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	SO4-02	SOLID	2.63e4	2.59e4	N/A ug/g
95000085	B-104	7 DUP	S95T001828	0 W	QIC-01	OXALATE2	SOLID	1.49e3	1.49e3	N/A ug/g

Final page for worklist #

2599

See attached for Signature
Analyst Signature JM Luy Date 9/26/95

RL Black
Analyst Signature Date

Verified 10/3/95 JM Luy

Data Entry Comments:

Best Shiffer II is planning to re prep these if more sample is available. JM Luy

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.63

LABCORE Data Entry Template for Worklist#

2599

Analyst: SMF Instrument: IC01 IC01 Book # 106N9-D

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC, Need Br, digest weights very low for these. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			IC-01 F-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 CL-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 NO2-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 BR-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 NO3-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 PO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 SO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP			IC-01 OXALATE2	SOLID			N/A	ug/g
		2 STD			IC-01 F-02	SOLID			N/A	ug/g
		2 STD			IC-01 CL-02	SOLID			N/A	ug/g
		2 STD			IC-01 NO2-02	SOLID			N/A	ug/g
		2 STD			IC-01 BR-02	SOLID			N/A	ug/g
		2 STD			IC-01 NO3-02	SOLID			N/A	ug/g
		2 STD			IC-01 PO4-02	SOLID			N/A	ug/g
		2 STD			IC-01 SO4-02	SOLID			N/A	ug/g
		2 STD			IC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	IC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	IC-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

Sample

Duplicate

S95T001827

0.6200 g/L

0.3600 g/L

S95T001828

3.65 g/L

2.94 g/L

Second Spk deleted per - JMFrye Gmf

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.64

LABCORE Data Entry Template for Worklist#

2599

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001827	0 W	QIC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001827	0 W	QIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001827	0 W	QIC-01 SO4-02	SOLID			N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.65

LABCORE Data Entry Template for Worklist#

2599

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	S95T001827	0 W	aIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 CL-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	6 SAMPLE	S95T001828	0 W	aIC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001828	0 W	aIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0 W	aIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0 W	aIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0 W	aIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0 W	aIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0 W	aIC-01 NO3-02	SOLID			N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.66

LABCORE Data Entry Template for Worklist#

2599

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	8 SPK	S95T001828	0	W	21C-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0	W	21C-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	8 SPK	S95T001828	0	W	21C-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist #

2599

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

207.67

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001827 & S95T001828 TEST CODE: @ic_01 INSTRUMENT: IC01 WORK LIST #: 2599 BATCH ID:	ANALYST: Ed Colvin ANALYSIS DATE: 09/25/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	---

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
106N9D		102.5%	98.5%	102.4%	99.5%	105.5%	101.6%	102.5%	100.8%
S95T001827		8.96E+03	3.42E+03	3.51E+03	4.51E+05	4.01E+04	4.21E+04	<102954.84	<800.00
S95T001827dup		8.78E+03	3.41E+03	3.50E+03	5.02E+05	4.75E+04	3.91E+04	<1755.58	<1377.78
Duplicate 1 RPD		2.1%	0.2%	0.3%	10.7%	16.9%	7.4%	N/A	N/A
S95T001828		4.74E+03	2.10E+03	2.48E+03	2.72E+05	2.58E+04	2.63E+04	<1904.68	<1494.79
S95T001828dup		5.46E+03	2.16E+03	2.57E+03	2.80E+05	2.70E+04	2.59E+04	<2364.63	<1855.78
Duplicate 2 RPD		14.0%	3.1%	3.7%	2.6%	4.5%	1.7%	N/A	N/A
S95T001827spk		35.9%	103.3%	104.1%	108.5%	95.6%	104.9%	103.4%	101.0%

NARRATIVE:**Analyst Comments:****Chemist Comments:**

The 101 dilution for Br was used on sample 1827 because the spike on the 1 dilution was over-range. The 2 value for the duplicate for Br should be used. Dilutions of 101 and 11 were used for NO₃ on S95T001827 for sample & dup respectively since no 101 dilution was run for the duplicate.

Jm Faye

Form Completed By: <i>Jm Faye</i>	Date: 9/26/95
Chemist Approval: <i>Jm Faye</i>	Date: 9/26/95

207.68

LAB LEADER INFO	
Method:	LA-833-1050-1
Matrix:	solid
Test Code:	@ic_01
Work List #:	2888
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	106N9D
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	08/26/96
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	08/26/96
Time Complete:	
Instrument Code:	IC01
Rerun:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	106N9D
SAMPLE 1	S96T001827
DUPLICATE 1	S96T001827dup
SAMPLE 2	S96T001828
DUPLICATE 2	S96T001828dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S96T001827spk
SPIKE DUPLICATE	



TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<0.062	<0.083	<0.047	<0.099	<0.096	<0.078	<0.632	<0.496
Standard Data (µg/mL)	80.6	78.04	846.6	611.08	578.06	641.14	589.2	530.13
Sample 1 Data (µg/mL)	5.56E+00	2.12E+00	2.18E+00	2.79E+02	2.48E+01	2.61E+01	<0.632	<0.496
Sample 1 Dilution Factor	1	1	1	101	1	1	101	1
Sample 1 Prep DF	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Duplicate 1 Data (µg/mL)	3.16E+00	1.23E+00	1.26E+00	1.81E+02	1.71E+01	1.41E+01	<0.632	<0.496
Duplicate 1 Dilution Factor	1	1	1	11	1	1	1	1
Duplicate 1 Prep DF	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Sample 2 Data (µg/mL)	1.73E+01	7.68E+00	9.04E+00	9.94E+02	9.41E+01	9.81E+01	<0.632	<0.496
Sample 2 Dilution Factor	11	11	11	101	11	11	11	11
Sample 2 Prep DF	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
Duplicate 2 Data (µg/mL)	1.60E+01	6.36E+00	7.55E+00	8.22E+02	7.93E+01	7.81E+01	<0.632	<0.496
Duplicate 2 Dilution Factor	11	11	11	101	11	11	11	11
Duplicate 2 Prep DF	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	5.77E+00	2.93E+00	7.74E+00	9.46E+02	3.01E+01	3.27E+01	5.96E+02	5.31E+00
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.00	10.00	10.00	10.10	10.00	10.00	10.10	10.00
Std. Conc. (µg/mL)	89	79	834	614	546	631	576	525
Detection Limit	0.062	0.083	0.047	0.099	0.096	0.078	0.632	0.496
Matrix Detection Limit 1	1.00E+02	1.34E+02	8.82E+02	1.14E+03	9.61E+02	1.09E+03	1.03E+05	8.00E+02
Matrix Detection Limit 2	1.87E+02	2.50E+02	1.64E+03	1.93E+04	1.80E+03	2.04E+03	1.90E+03	1.49E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = ((Spike+Sample)-(Sample)/(Total Volume)/(Spike Vol)*(Spike Std)*(Sample DF)*100%
 Note: For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
 Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%
 Less than Values are Calculated from the Detection Limit/Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	102.8%	98.5%	102.4%	99.8%	106.3%	101.8%	102.5%	100.6%
Sample 1 in µg/g	8.96E+03	3.42E+03	3.81E+03	4.81E+06	4.01E+04	4.21E+04	<102884.84	<800.00
Duplicate 1 in µg/g	8.78E+03	3.41E+03	3.80E+03	4.02E+06	4.78E+04	3.91E+04	<1768.66	<1377.78
Duplicate 1 RPD	2.1%	0.2%	0.3%	10.7%	18.9%	7.4%	N/A	N/A
Sample 2 in µg/g	4.74E+03	2.18E+03	2.48E+03	2.72E+06	2.88E+04	2.83E+04	<1804.68	<1484.79
Duplicate 2 in µg/g	4.46E+03	2.16E+03	2.87E+03	2.80E+06	2.70E+04	2.69E+04	<2364.63	<1864.79
Duplicate 2 RPD	14.0%	3.1%	3.7%	2.6%	4.8%	1.7%	N/A	N/A
Spike % Recovery	31.9%	103.3%	104.1%	108.6%	88.8%	104.9%	103.4%	101.0%

Data Entry by:	<i>Jann Frye</i>	Date:	08/26/96
Approved by:	<i>Jann Frye</i>	Date:	9/20/96
Form DIONEX-WB1 Rev. 1.3			

207.69

Sample Name: LMCS STD 106N9-D
Data File : C:\DX\DATA\95092591.D04
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst : *Susan M. Deaton*

Date: 09/25/1995 19:04:38

Detector: CDM-1

Column: AG4A/AS4A anion column/SRS

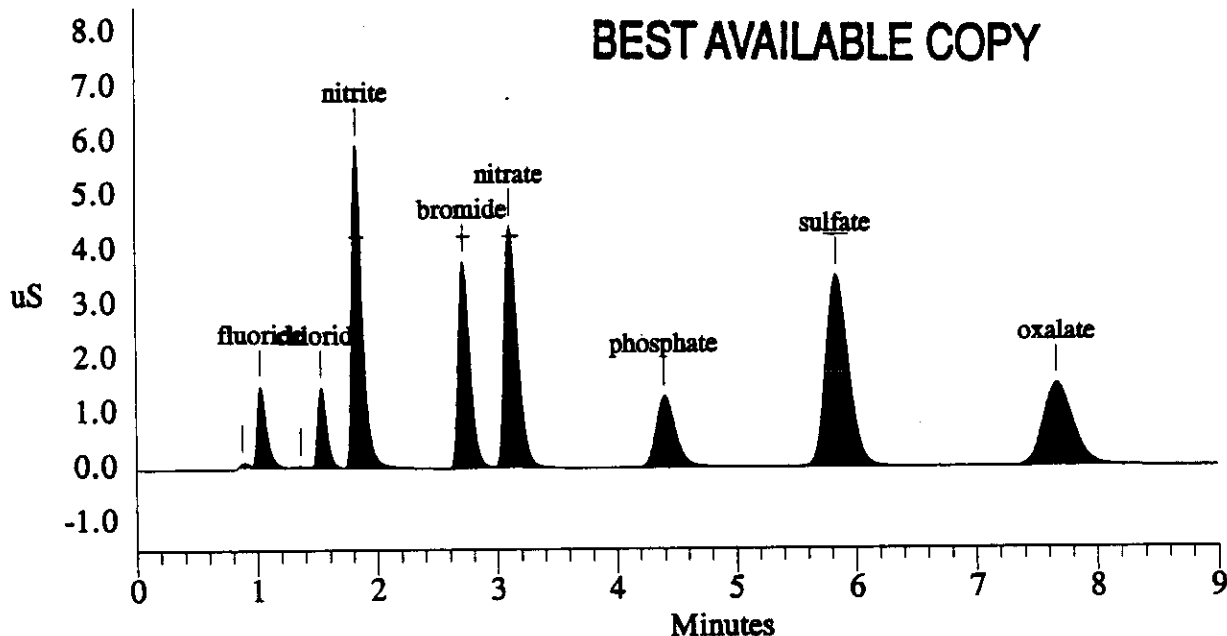
09-26-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	67	287	2	
2	1.03	fluoride	60.535	1462	7612	2	-2.83
4	1.53	chloride	78.042	1451	7438	1	0.66
5	1.83	nitrite	546.644	5923	34942	1	0.55
6	2.72	bromide	589.235	3769	25219	1	0.74
7	3.11	nitrate	611.059	4412	33747	1	0.97
8	4.40	phosphate	576.060	1289	14428	1	-1.79
9	5.84	sulfate	641.140	3499	45876	1	-1.18
10	7.67	oxalate	530.134	1493	25734	1	-1.41
Totals			3632.851	23365	195283		

File: 95092591.D04 Sample: LMCS STD 106N9-D



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 207.70 TO 207.82

WHC-SD-WM-DP-131, REV. 1

207.70

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=====
Sample Name: ELUENT BLANK                      Date: 09/25/1995 18:52:41
Data File  : C:\DX\DATA\95092591.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3            Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

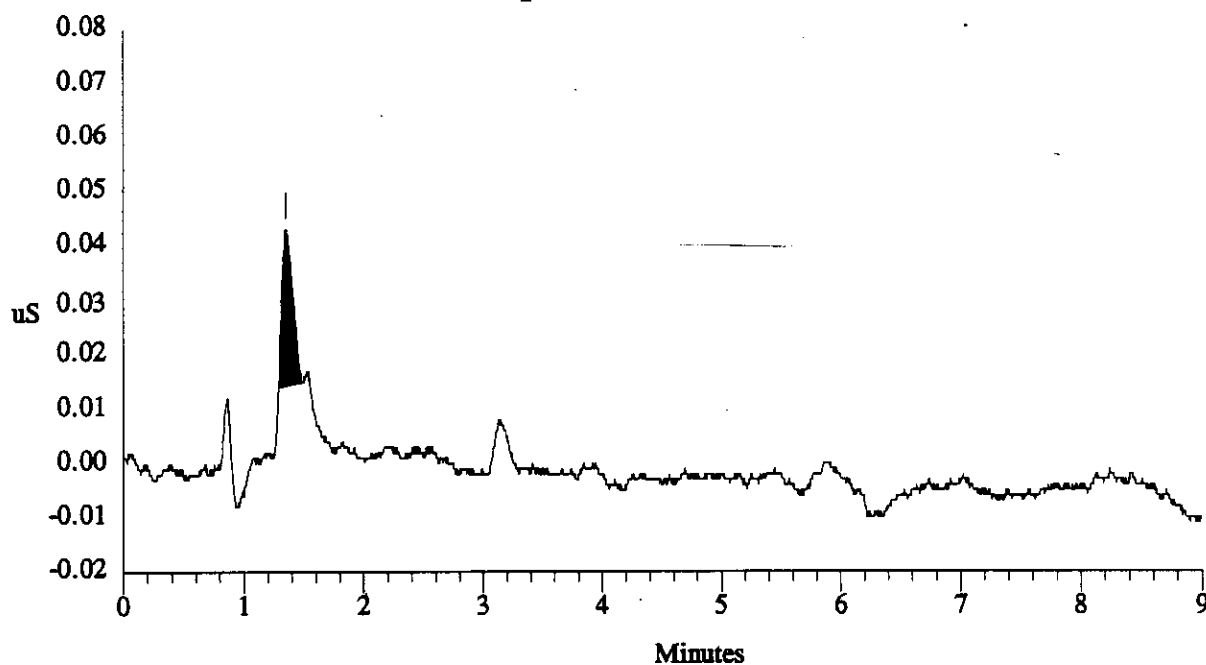
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95092591.D03 Sample: ELUENT BLANK



WHC-SD-WM-DP-137, REV. 1

207.71

Sample Name: PREP BLANK H2O DIG.

Date: 09/25/1995 22:21:05

Data File : C:\DX\DATA\95092591.D12

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 12

Detector: CDM-1

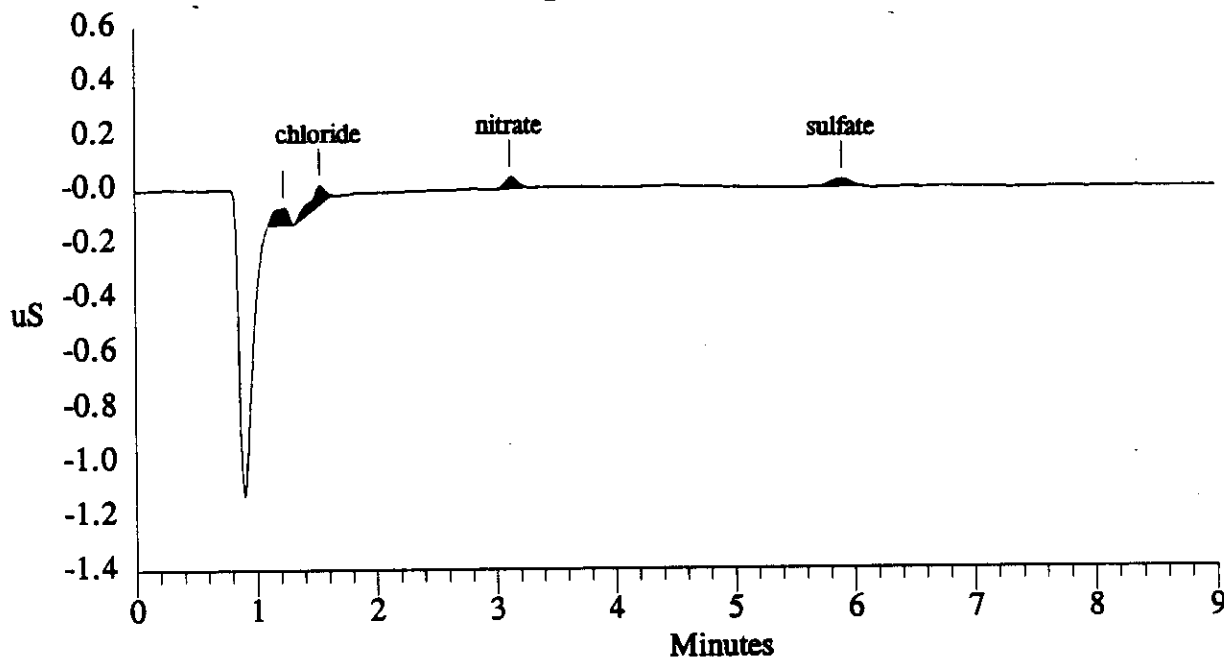
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.23		0.000	63	545	1	
2	1.53	chloride	0.034	70	664	1	0.66
3	3.12	nitrate	0.063	42	306	1	1.30
4	5.90	sulfate	0.092	27	307	1	-0.17
Totals			0.188	202	1823		

File: 95092591.D12 Sample: PREP BLANK H2O DIG.



WHO-SD-WM-DP-132, REV. 1

207,72

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=====
Sample Name: S95T001827  H2O DIG.           Date: 09/25/1995 20:07:58
Data File  : C:\DX\DATA\95092591.D08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 8         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

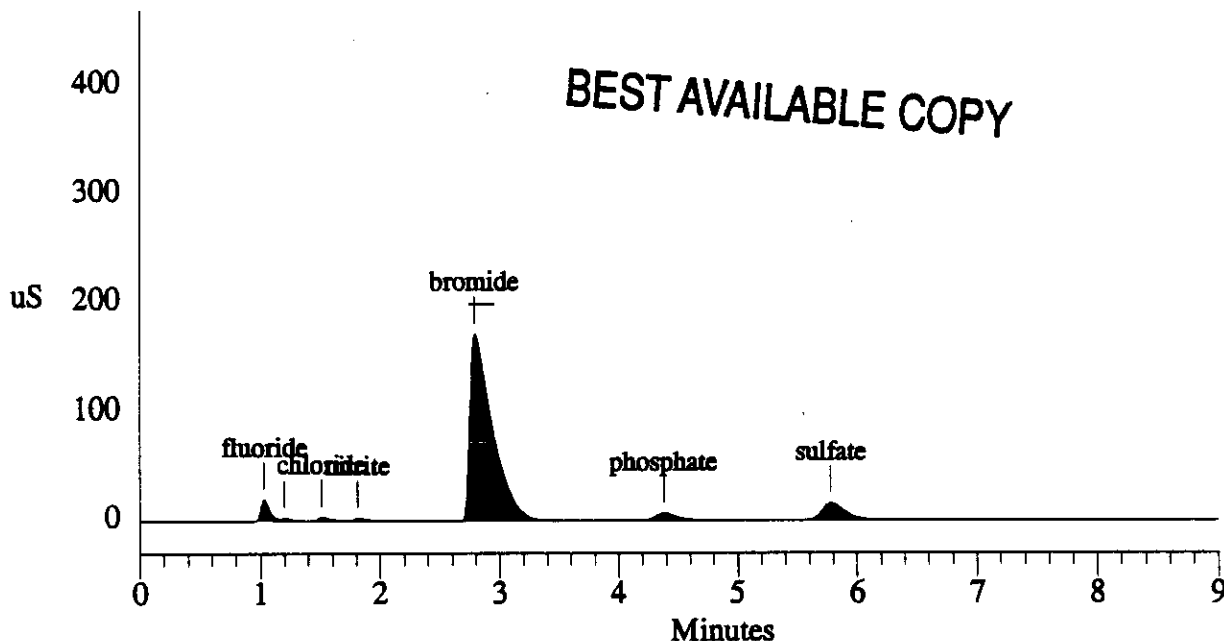
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  2700  5Hz   0.00  9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	5.557	18916	88614	3	-2.83
2	1.20		0.000	1913	8832	4	
3	1.51	chloride	2.118	3600	20339	1	-0.66
4	1.81	nitrite	2.178	2245	13704	1	-0.55
5	2.79	bromide	-310.204	171289	2241731	1	3.33
6	4.38	phosphate	24.842	6312	69999	1	-2.23
7	5.78	sulfate	26.071	15645	203674	1	-2.20
Totals			-249.438	219920	2646892		

File: 95092591.D08 Sample: S95T001827 H2O DIG.



UHG-CD-WM-DP-132, REV. 1

207.73

```

=====
Sample Name: S95T001827  H2O DIG.           Date: 09/25/1995 19:20:47
Data File  : C:\DX\DATA\95092591.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 5         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  2700  5Hz  0.00  9.00          200
-----

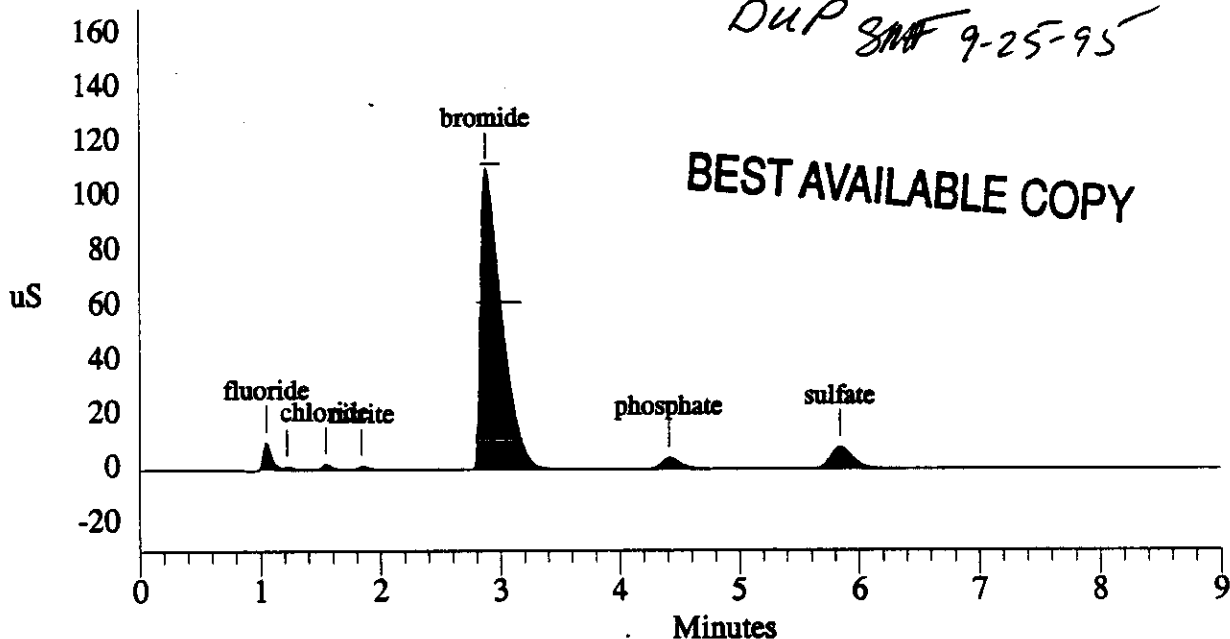
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.05	<u>fluoride</u>	3.159	9717	44339	3	-0.94
2	1.22		0.000	1077	5075	4	
3	1.54	<u>chloride</u>	1.227	2126	11708	1	1.32
4	1.84	<u>nitrite</u>	1.261	1325	7758	1	1.10
5	2.88	bromide	8.899	110089	1359459	1	6.67
6	4.41	<u>phosphate</u>	17.087	4176	46262	1	-1.56
7	5.84	<u>sulfate</u>	14.061	8025	104763	1	-1.18
Totals			45.694	136534	1579364		

File: 95092591.D05 Sample: S95T001827 H2O DIG.

DUP SMF 9-25-95



WHO-CC-WM-DP-137, REV. 1

207.74


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=====
Sample Name: S95T001827  H2O DIG.           Date: 09/25/1995 19:46:45
Data File  : C:\DX\DATA\95092591.D06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 6        Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  2700  5Hz  0.00  9.00          200
-----

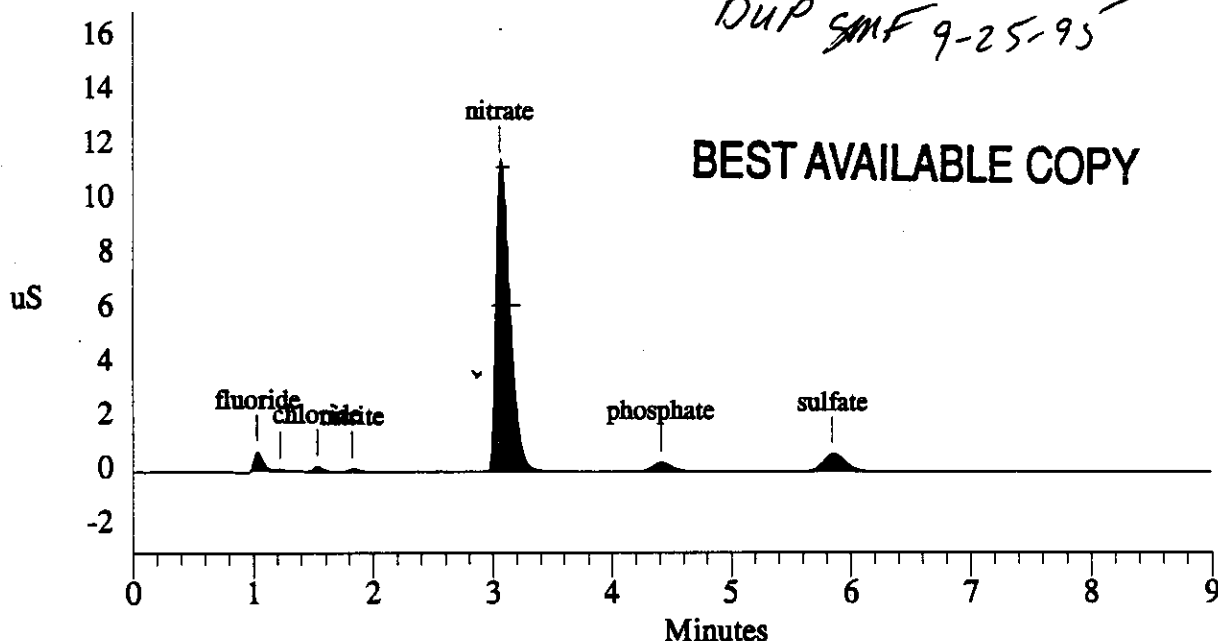
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	3.056	703	3463	3	-2.83
2	1.22		0.000	70	283	4	
3	1.53	chloride	0.750	199	976	1	0.66
4	1.82	nitrite	1.785	118	673	1	0.00
5	<u>3.06</u>	<u>nitrate</u>	180.684	11368	94811	1	-0.65
6	4.41	phosphate	18.017	336	3762	1	-1.56
7	5.85	sulfate	13.840	656	8667	1	-1.02
Totals			218.131	13451	112635		

File: 95092591.D06 Sample: S95T001827 H2O DIG.

DUP SMF 9-25-95



WHC-CD-WM-SP-137, REV. 1

207.75

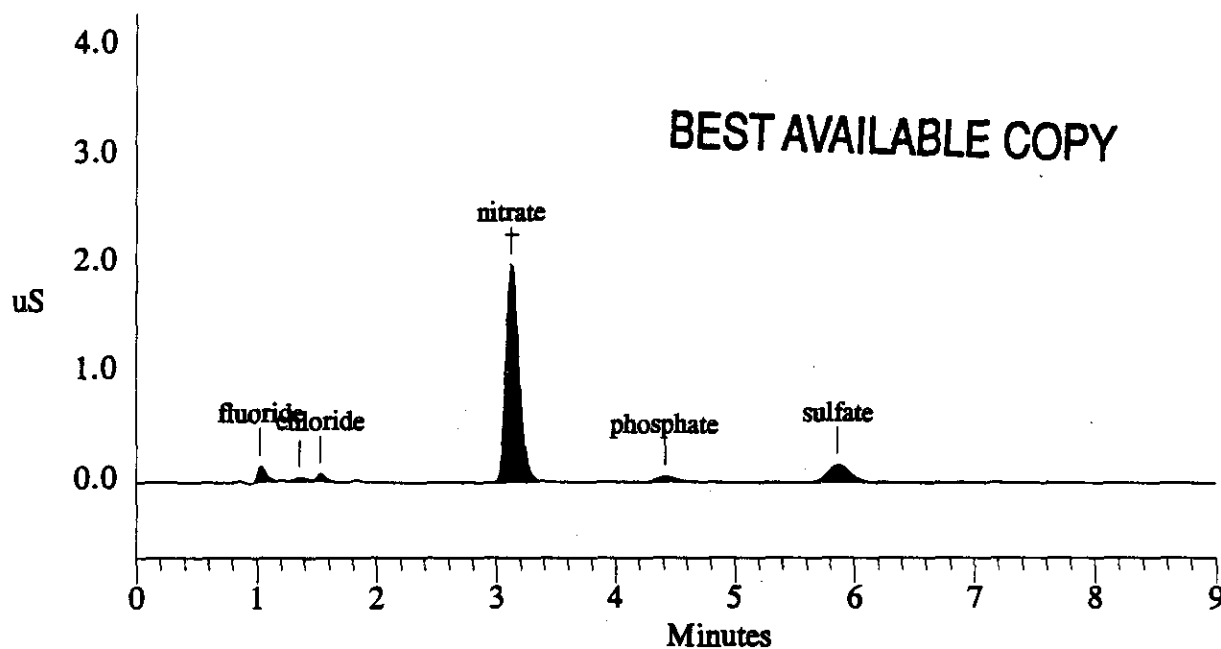
Sample Name: S95T001827 H2O DIG. Date: 09/25/1995 20:21:12
 Data File : C:\DX\DATA\95092591.D09
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	5.531	137	634	1	-2.83
3	1.53	chloride	-0.808	64	288	1	0.66
4	3.12	nitrate	279.484	1998	15261	1	1.30
5	4.41	phosphate	36.864	49	489	1	-1.56
6	5.86	sulfate	33.417	158	2017	1	-0.85
Totals			354.489	2406	18689		

File: 95092591.D09 Sample: S95T001827 H2O DIG.



VHC-CD-WM-OP-137, REV. 1

207,76

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=====
Sample Name: S95T001827  SPK  H2O DIG.      Date: 09/25/1995 22:10:32
Data File  : C:\DX\DATA\95092591.D11
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 11      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

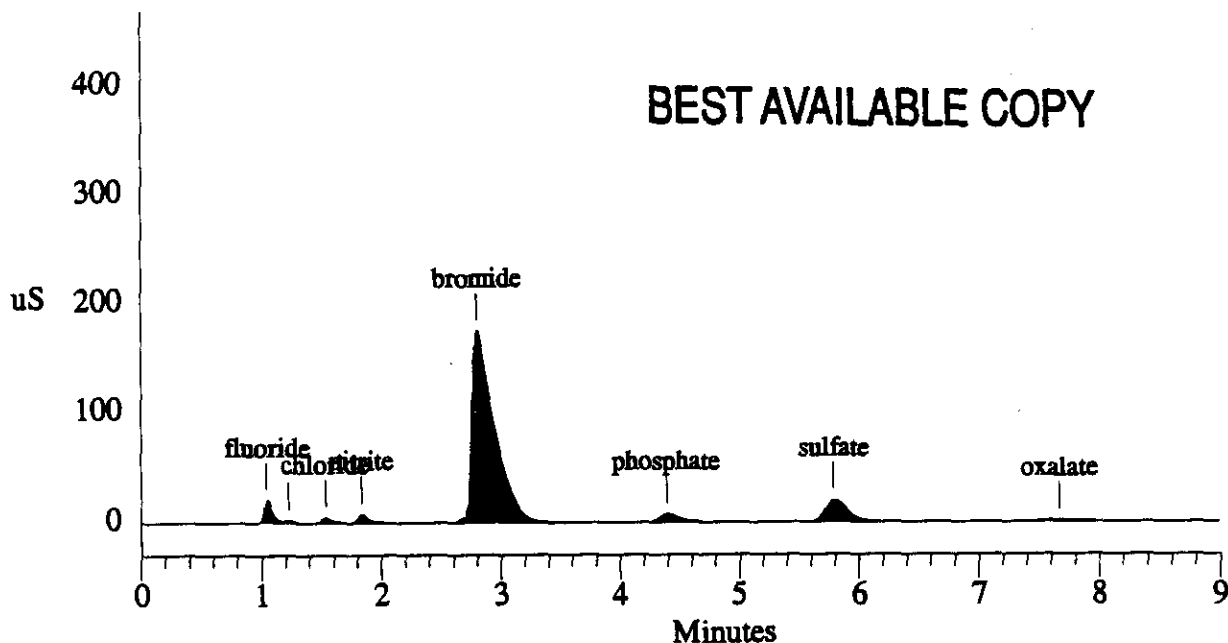
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1  2700  5Hz  0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	fluoride	5.769	19739	93352	3	-1.89
2	1.22		0.000	1928	9217	4	
3	1.53	chloride	2.934	5038	28560	1	0.66
4	1.83	nitrite	7.739	8145	50485	1	0.55
5	2.80	bromide	-353.789	176284	2325497	1	3.70
6	4.39	phosphate	30.072	7835	87203	1	-2.01
7	5.79	sulfate	32.697	19939	262917	1	-2.03
8	7.67	oxalate	5.310	1491	26049	1	-1.41
Totals			-269.267	240398	2883281		

File: 95092591.D11 Sample: S95T001827 SPK H2O DIG.



WHO-OD-WM-SP-137, REV. 1

207,77

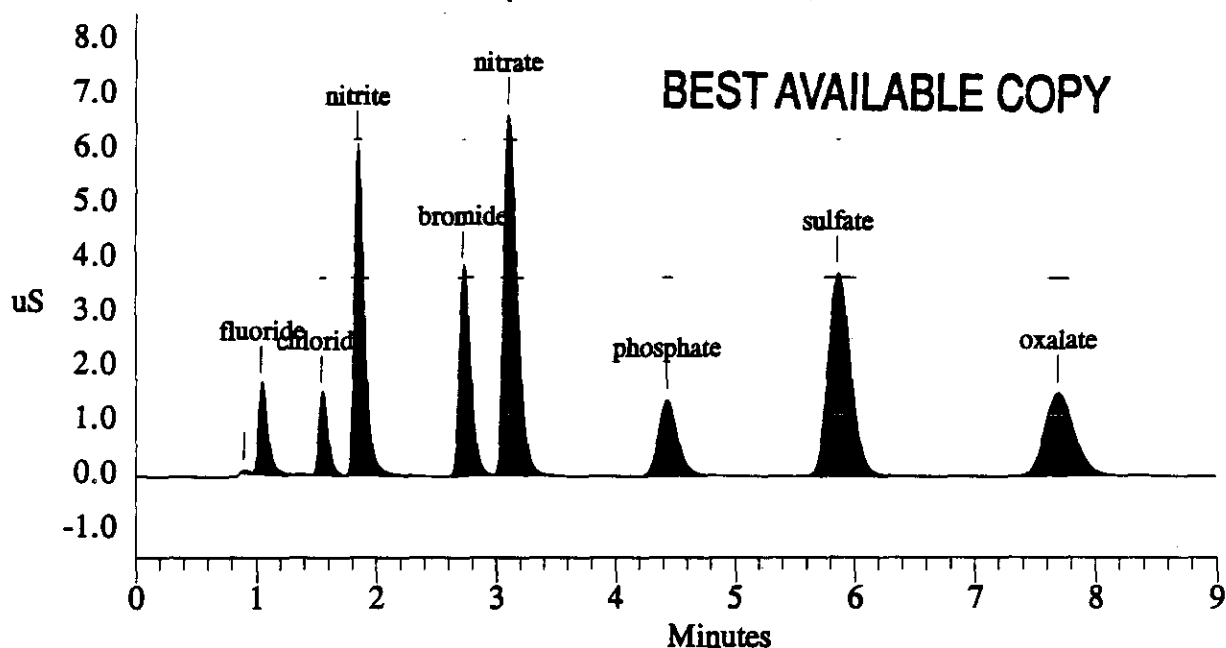
Sample Name: S95T001827 SPK H2O DIG. Date: 09/25/1995 21:59:41
 Data File : C:\DX\DATA\95092591.D10
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	70.538	1659	8907	2	-1.89
3	1.54	chloride	84.463	1502	8031	1	1.32
4	1.84	nitrite	559.895	6011	35812	1	1.10
5	2.72	bromide	594.605	3811	25459	1	0.74
6	3.10	nitrate	945.748	6622	52795	1	0.65
7	4.43	phosphate	621.954	1389	15641	1	-1.12
8	5.86	sulfate	686.622	3738	49228	1	-0.85
9	7.69	oxalate	542.914	1532	26387	1	-1.16
Totals			4106.738	26263	222260		

File: 95092591.D10 Sample: S95T001827 SPK H2O DIG.



WHO-SD-WM-DP-137, REV. 1

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=====
Sample Name: S95T001828  H2O DIG.          Date: 09/25/1995 23:05:58
Data File  : C:\DX\DATA\95092591.D15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 15      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

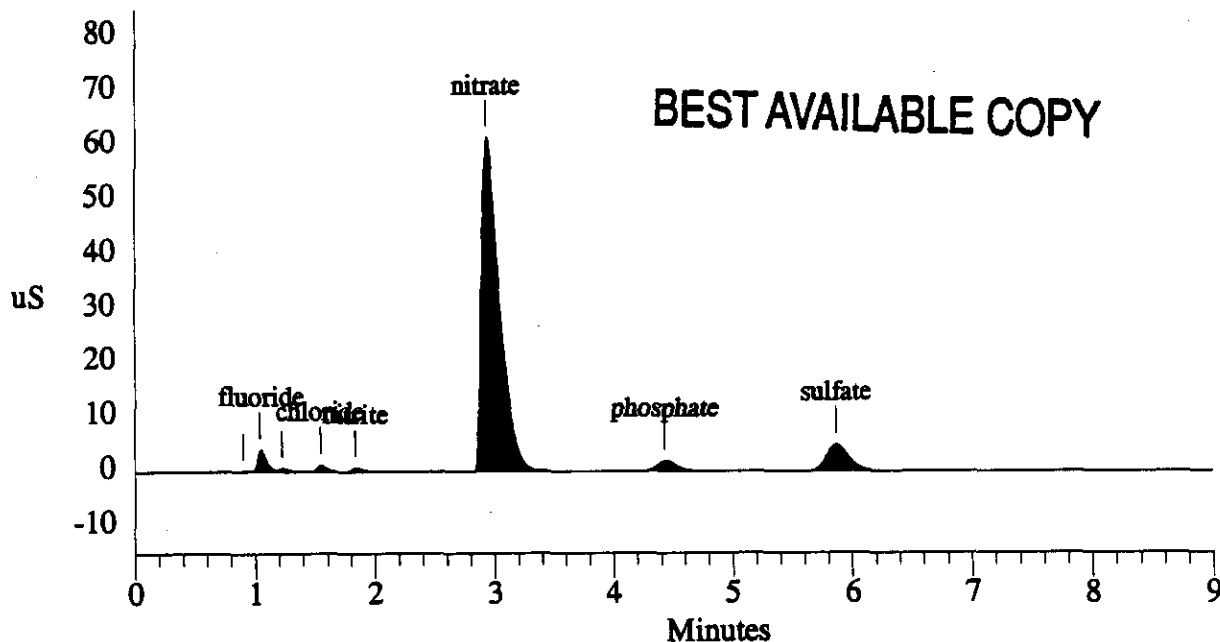
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  2700  5Hz  0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	81	305	2	'
2	1.04	fluoride	17.327	3964	20764	3	-1.89
3	1.22		0.000	528	2752	4	
4	1.54	chloride	7.658	1275	6727	1	1.32
5	1.83	nitrite	9.036	812	4918	1	0.55
6	2.93	nitrate	858.694	61497	655390	1	-4.87
7	4.43	phosphate	94.114	1970	22116	1	-1.12
8	5.86	sulfate	96.140	4863	63800	1	-0.85
Totals			1082.969	74991	776771		

File: 95092591.D15 Sample: S95T001828 H2O DIG.



CHC-CD-WM-BP-132 REV. 1

207, 79

Data Reprocessed On 09/25/1995 23:19:01

Sample Name: S95T001828 H2O DIG.

Date: 09/25/1995 22:31:11

Data File : C:\DX\DATA\95092591.D13

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 13

Detector: CDM-1

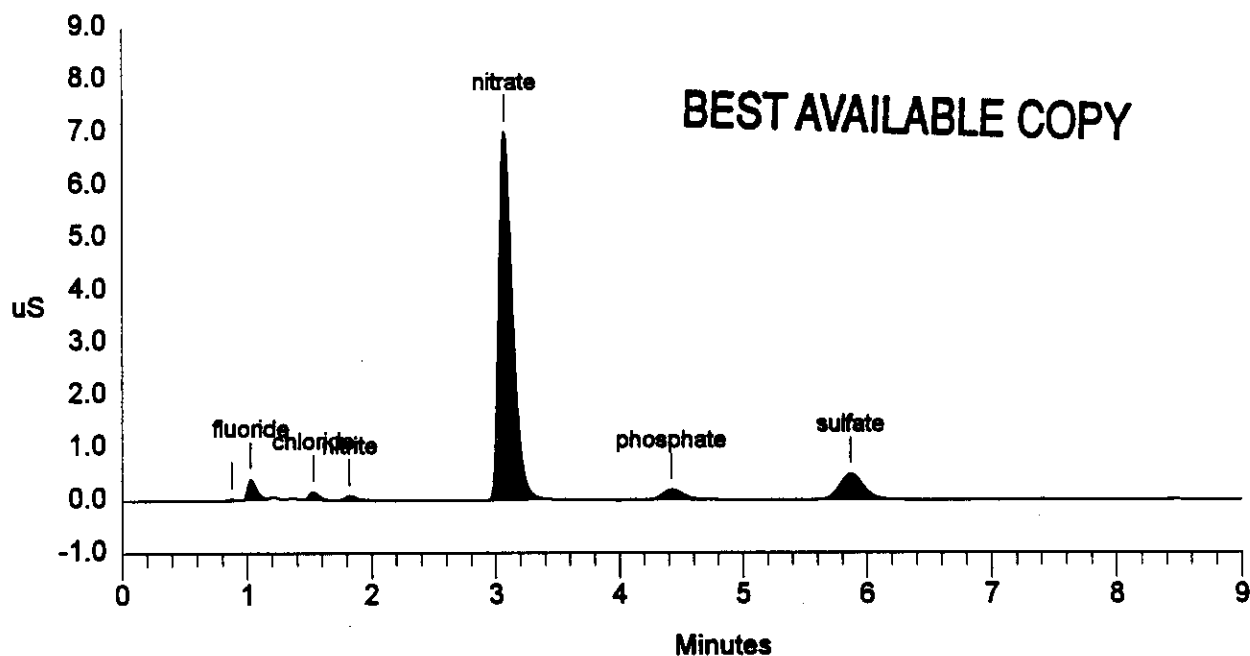
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	15.134	386	1836	1	-2.83
3	1.53	chloride	4.715	155	781	1	0.66
4	1.82	nitrite	13.583	88	495	1	0.00
5	3.07	nitrate	994.286	7001	55591	1	-0.32
6	4.42	phosphate	104.200	195	2200	1	-1.34
7	5.87	sulfate	95.052	492	6389	1	-0.68
Totals			1226.969	8316	67291		

File: 95092591.D13 Sample: S95T001828 H2O DIG.



WHO-CD-WM-CP-137, REV. 1

207.80

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=====
Sample Name: S95T001828 DUP H2O DIG.      Date: 09/25/1995 23:24:53
Data File  : C:\DX\DATA\95092591.D16
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column/SRS
=====

```

```

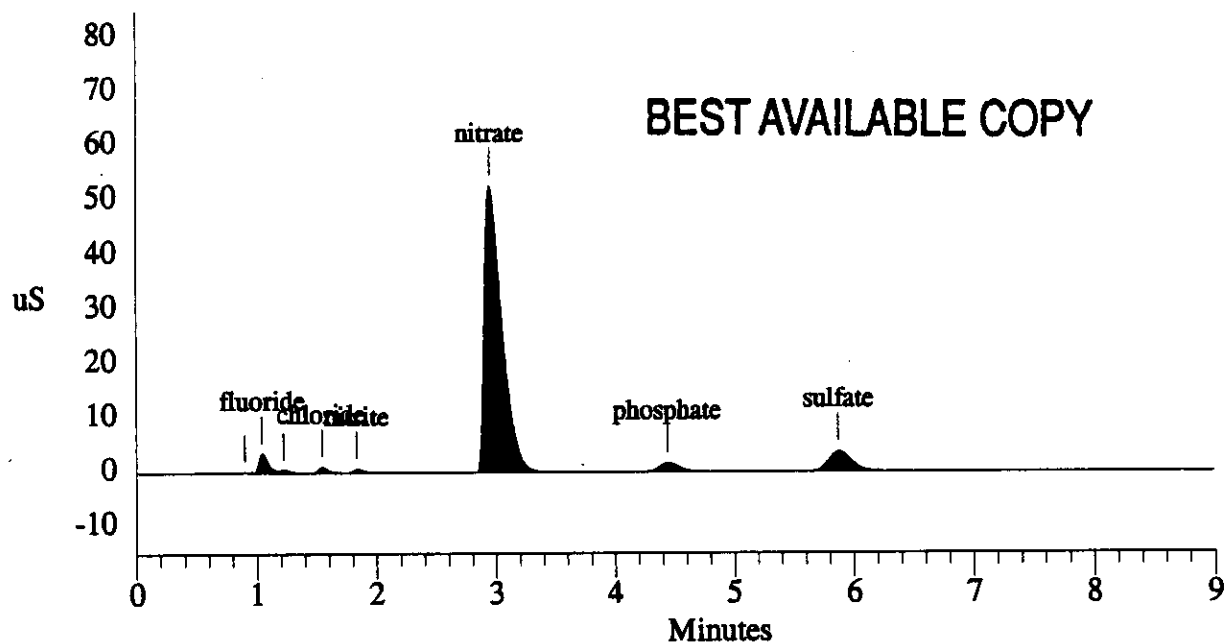
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    2700  5Hz   0.00  9:00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	65	243	2	
2	<u>1.04</u>	<u>fluoride</u>	16.044	3477	19144	3	-1.89
3	1.22		0.000	434	2288	4	
4	<u>1.54</u>	<u>chloride</u>	6.360	1086	5635	1	1.32
5	<u>1.83</u>	<u>nitrite</u>	7.549	677	4046	1	0.55
6	2.95	nitrate	773.533	52646	539878	1	-4.22
7	<u>4.44</u>	<u>phosphate</u>	79.310	1651	18466	1	-0.89
8	<u>5.87</u>	<u>sulfate</u>	76.148	3815	50155	1	-0.68
Totals			958.945	63850	639855		

File: 95092591.D16 Sample: S95T001828 DUP H2O DIG.



WHO-CD-WM-OP-137, REV. 1

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=====
Sample Name: S95T001828 DUP H2O DIG.      Date: 09/25/1995 22:53:22
Data File  : C:\DX\DATA\95092591.D14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 14      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

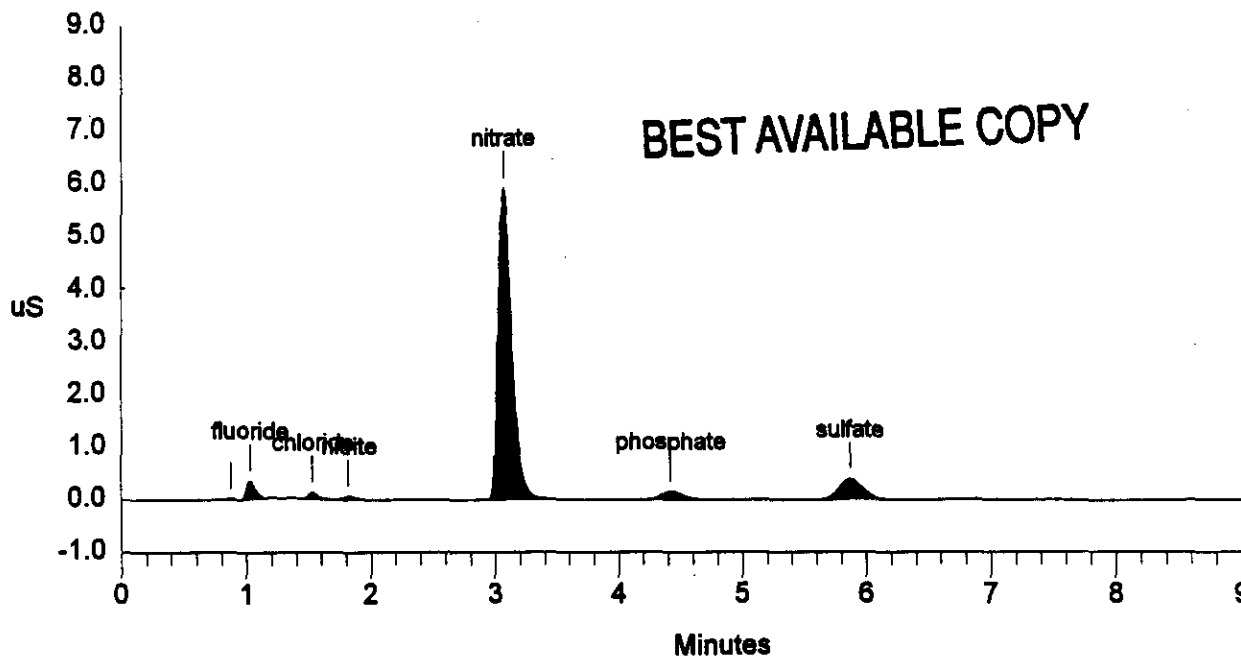
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00        200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	13.905	345	1681	1	-2.83
3	1.53	chloride	2.850	128	614	1	0.66
4	1.82	nitrite	12.067	74	398	1	0.00
5	3.07	nitrate	822.054	5917	45708	1	-0.32
6	4.42	phosphate	90.325	166	1847	1	-1.34
7	5.87	sulfate	77.592	393	5149	1	-0.68
Totals			1018.793	7023	55398		

File: 95092591.D14 Sample: S95T001828 DUP H2O DIG.



WHO-CD-WM-DP-137, REV. 1

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LABCORE Data Entry Template for Worklist#

2664

Analyst: EHC Instrument: IC01 IC01 Book # 109294

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC, water digests. JMF

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				BIC-01 F-02	SOLID		2.062	N/A	ug/g
		1	BLNK-PREP				BIC-01 CL-02	SOLID		2.083	N/A	ug/g
		1	BLNK-PREP				BIC-01 NO2-02	SOLID		2.547	N/A	ug/g
		1	BLNK-PREP				BIC-01 BR-02	SOLID		2.150	N/A	ug/g
		1	BLNK-PREP				BIC-01 NO3-02	SOLID		2.649	N/A	ug/g
		1	BLNK-PREP				BIC-01 PO4-02	SOLID		2.596	N/A	ug/g
		1	BLNK-PREP				BIC-01 SO4-02	SOLID		2.678	N/A	ug/g
		1	BLNK-PREP				BIC-01 OXALATE2	SOLID		2.496	N/A	ug/g
		2	STD				BIC-01 F-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				BIC-01 CL-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 NO2-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 BR-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 NO3-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 PO4-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 SO4-02	SOLID		N/A	N/A	ug/g
		2	STD				BIC-01 OXALATE2	SOLID		N/A	N/A	ug/g
95000085	B-104	3	SAMPLE	S95T001819	0	W	BIC-01 F-02	SOLID	N/A	3.023	0.020	ug/g
95000085	B-104	3	SAMPLE	S95T001819	0	W	BIC-01 CL-02	SOLID	N/A	1.423	0.020	ug/g

Data Entry Comments:

Enter STD in CCV and Inst. Blank in CCV. JMF

There may have been a dilution error in the sample for S95T001819 causing poor RPD'S & spk recovery. It will be re-run JMF

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	NO2-02	SOLID	N/A	11.102	ug/g
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	BR-02	SOLID	N/A	41.802	ug/g
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	NO3-02	SOLID	N/A	3.0505	ug/g
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	PO4-02	SOLID	N/A	1.9904	ug/g
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	SO4-02	SOLID	N/A	1.8004	ug/g
95000085	B-104	3 SAMPLE	995T001819	0 W	BIC-01	OXALATE2	SOLID	N/A	48.3402	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	F-02	SOLID	3.0902	1.8102	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	CL-02	SOLID	1.8202	8.0002	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	NO2-02	SOLID	4.6702	48.7902	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	BR-02	SOLID	41.002	41.002	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	NO3-02	SOLID	3.0505	3.0505	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	PO4-02	SOLID	1.9904	1.9902	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	SO4-02	SOLID	1.8004	1.8002	ug/g
95000085	B-104	4 DUP	995T001819	0 W	BIC-01	OXALATE2	SOLID	48.3402	41.0002	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	F-02	SOLID		2.07	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	CL-02	SOLID		2.1	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	NO2-02	SOLID		2.7	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	BR-02	SOLID		57.0	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	NO3-02	SOLID		101.0	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	PO4-02	SOLID		65.3	ug/g
95000085	B-104	5 SPK	995T001819	0 W	BIC-01	SO4-02	SOLID		73.4	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
10000085	B-104	5 SPK	S95T001819	0 W	81C-01	OXALATE2	SOLID	N/A	N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	F-02	SOLID	N/A	3.2623	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	CL-02	SOLID	N/A	1.6323	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	NO2-02	SOLID	N/A	1.5723	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	BR-02	SOLID	N/A	1.2523	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	NO3-02	SOLID	N/A	4.3025	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	PO4-02	SOLID	N/A	1.9024	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	SO4-02	SOLID	N/A	3.3724	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	81C-01	OXALATE2	SOLID	N/A	1.6423	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	F-02	SOLID	3.2623	1.6123	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	CL-02	SOLID	1.6323	1.5723	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	NO2-02	SOLID	1.5723	1.5723	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	BR-02	SOLID	1.2523	1.2523	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	NO3-02	SOLID	4.3025	4.3025	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	PO4-02	SOLID	1.9024	2.2724	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	SO4-02	SOLID	3.3724	2.7024	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	81C-01	OXALATE2	SOLID	1.6423	1.6423	ug/g
		8 CCB			81C-01	F-02	SOLID		1.6123	ug/g
		8 CCB			81C-01	CL-02	SOLID		1.5723	ug/g
		8 CCB			81C-01	NO2-02	SOLID		1.5723	ug/g
		8 CCB			81C-01	BR-02	SOLID		1.2523	ug/g
		8 CCB			81C-01	NO3-02	SOLID		4.3025	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		8 CCB		81C-01	PO4-02	SOLID		2.596	N/A	ug/g
		8 CCB		81C-01	SO4-02	SOLID		2.68	N/A	ug/g
		8 CCB		81C-01	OXALATE2	SOLID		2.496	N/A	ug/g
		9 CCV		81C-01	F-02	SOLID		6.24	N/A	ug/g
		9 CCV		81C-01	CL-02	SOLID		79.8	N/A	ug/g
		9 CCV		81C-01	NO2-02	SOLID		527.7	N/A	ug/g
		9 CCV		81C-01	BR-02	SOLID		570.4	N/A	ug/g
		9 CCV		81C-01	NO3-02	SOLID		614.5	N/A	ug/g
		9 CCV		81C-01	PO4-02	SOLID		562.5	N/A	ug/g
		9 CCV		81C-01	SO4-02	SOLID		631.9	N/A	ug/g
		9 CCV		81C-01	OXALATE2	SOLID		500.6	N/A	ug/g

Final page for worklist #

2664

2001/10/9/95
original for Ed Colvin see
Analyst Signature _____ Date _____
original for signature on 10/5/95

Analyst Signature _____ Date _____

Entered & Verified 10/9/95
S95T001819 put out for re-run.

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

analyst:

EE

Instrument: IC01

IC-03

Book # 107N9A

Method: LA-533-105 Rev/Mod

D-1

Worklist Comment: B-104 IC, water digests. JMF

Especially need Br

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP		01C-01	F-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	CL-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	NO2-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	BR-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	NO3-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	PO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	SO4-02	SOLID			N/A	ug/g
		1 BLNK-PREP		01C-01	OXALATE2	SOLID			N/A	ug/g
		2 STD		01C-01	F-02	SOLID			N/A	ug/g
		2 STD		01C-01	CL-02	SOLID			N/A	ug/g
		2 STD		01C-01	NO2-02	SOLID			N/A	ug/g
		2 STD		01C-01	BR-02	SOLID			N/A	ug/g
		2 STD		01C-01	NO3-02	SOLID			N/A	ug/g
		2 STD		01C-01	PO4-02	SOLID			N/A	ug/g
		2 STD		01C-01	SO4-02	SOLID			N/A	ug/g
		2 STD		01C-01	OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	01C-01	F-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	01C-01	CL-02	SOLID	N/A		ug/g

Data Entry Comments:

SAMPLE

DUP

S95T001819

13.2390

13.9000

S95T001822

10.6410

11.4310

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	NO2-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	BR-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	NO3-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	PO4-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	SO4-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	BIC-01	OXALATE2	SOLID	N/A		ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001819	0 W	BIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001819	0 W	BIC-01	SO4-02	SOLID		N/A	ug/g

Data Entry Comments:

LMCS 109N9-A .100ml-10ml

SPIKE 109N9-A .100ml.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2664

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
5000085	B-104	5 SPK	S95T001819	0 W	BIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	F-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	CL-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	NO2-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	BR-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	NO3-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	PO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	SO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	S95T001822	0 W	BIC-01	OXALATE2	SOLID	N/A		ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001822	0 W	BIC-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist #

2664

E.H. Cahn 10-5-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #: 895T001819 & 895T001822

TEST CODE: @ic-01

INSTRUMENT: IC-02

WORK LIST #: 2884

BATCH ID:

ANALYST: Ed Colvin

ANALYSIS DATE: 10/06/95

SAMPLE POINT: B-104

SAMPLE PREP: water digest

Result Units	mg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		107.5%	101.0%	98.8%	100.1%	103.0%	100.1%	99.2%	106.6%
895T001819		3.69E+03	1.82E+03	1.67E+03	3.05E+05	1.99E+04	1.86E+04	<1002.49	<834.38
895T001819dup		1.91E+03	8.26E+02	<636.98	3.25E+05	9.09E+03	8.58E+03	<964.82	<784.68
Duplicate 1 RPD		68.3%	76.0%	N/A	6.6%	74.6%	73.6%	N/A	N/A
895T001822		3.21E+03	1.63E+03	1.59E+03	4.30E+05	1.90E+04	3.37E+04	<1250.78	<1041.00
895T001822dup		4.01E+03	1.94E+03	1.88E+03	3.90E+05	2.27E+04	2.70E+04	<1161.05	<966.32
Duplicate 2 RPD		22.1%	17.2%	18.4%	12.3%	17.9%	21.9%	N/A	N/A
895T001819spk		28.7%	79.8%	97.7%	101.1%	65.3%	73.4%	57.6%	106.9%

NARRATIVE:

Analyst Comments:

Chemist Comments:

Form Completed By: *Ed Colvin*

Date: 10/9/95

Chemist Approval: *[Signature]*

Date: 10/9/95

213

LAB LEADER INFO	
Labcode:	LA-033-948 D-1
Barcode:	none
Lab Code:	000-01
Work Unit R:	2004
Sample R:	
Sample Details	
Depth or System L:	107E
Sample Book Number:	1000004
Sample Number R:	1
Prepared By:	Joan Frye
Prepared Date:	1000008
Chemical:	Joan Frye
Analysis:	84 Cyclic
Analysis Date:	1000006
Titrim Complete:	11:28 AM
Instrument Code:	IC-42
Therm:	0
Sample Type:	water digest
Sample Pric:	D-104
Sample Type	
STANDARD	1000004
SAMPLE 1	00070010170
DUPPLICATE 1	00070010180mp
SAMPLE 2	00070010222
DUPPLICATE 2	00070010220mp
SAMPLE 3	
DUPPLICATE 3	
SAMPLE 4	
DUPPLICATE 4	
PRIME	00070010100mp
PRIME DUPLICATE	

TECH INFO							
	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Purestis	<0.07	<0.004	<0.005	<0.078	<1.19	<0.08	<0.08

62.4	71.3	827.7	914.5	882.5	831.9	578.4	680.5
------	------	-------	-------	-------	-------	-------	-------

[illegible][illegible][illegible][illegible][illegible][illegible]
$$n = (\text{Sample} \cdot \text{Duplicate}) / (\text{Sample} + \text{Duplicate}) / 2 = 100\%$$

Elemento	Chlorato	Nitrato	Nitrato	Phosphorato	Sulfato	Bromato	Oxalato
107.7%	101.1%	81.2%	104.1%	101.2%	104.1%	91.5%	104.2%
1.086(+3)	1.135(+3)	1.104(+3)	1.104(+3)	1.104(+3)	1.091(+3)	<1002.24	4342.35
1.071(+3)	1.062(+3)	<433.18	1.216(+3)	1.108(+3)	1.118(+3)	<844.33	<794.83
61.5%	71.2%	N/A	6.7%	74.2%	71.1%	N/A	N/A
1.211(+3)	1.131(+3)	1.104(+3)	4.392(+3)	1.106(+3)	1.175(+3)	<1380.74	<161.20
4.671(+3)	1.646(+3)	1.882(+3)	1.002(+3)	1.277(+3)	2.702(+3)	<1181.12	<884.33
22.1%	17.2%	14.4%	12.5%	17.2%	21.2%	N/A	N/A
25.7%	71.5%	87.1%	101.1%	81.5%	72.4%	67.3%	102.9%

Date:	10/09/06
Date:	11/16/07

Sample Name: 109N9-A STD

Date: 10/05/1995 07:53:50

Data File : C:\DX\DATA\95100531.D03

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 3

Detector: CDM-1

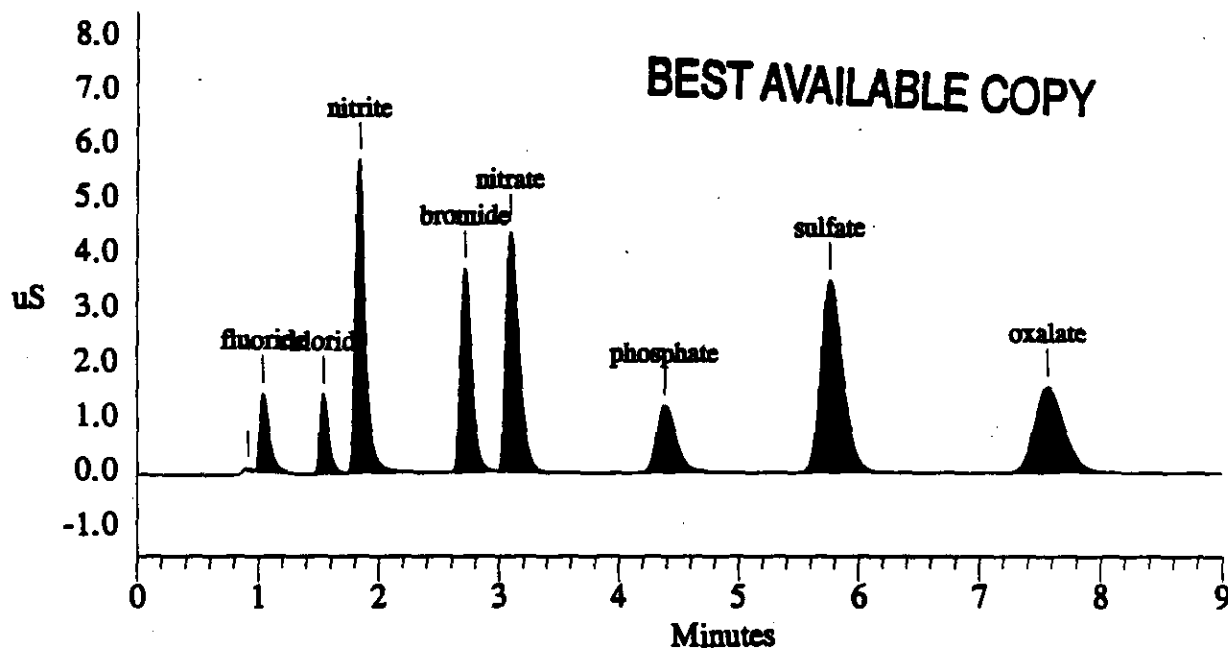
Analyst : *W. L. L.* Column: AG4A/AS4A anion column/SRS*10-05-95*

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	63.439	1442	7998	2	-1.89
3	1.54	chloride	79.828	1461	7527	1	1.32
4	1.84	nitrite	527.765	5725	33782	1	1.10
5	2.72	bromide	570.464	3735	24474	1	0.74
6	3.10	nitrate	614.598	4381	33956	1	0.65
7	4.39	phosphate	562.544	1229	14172	1	-2.01
8	5.77	sulfate	631.946	3510	45278	1	-2.37
9	7.57	oxalate	560.674	1586	27455	1	-2.70
Totals			3611.259	23070	194642		

File: 95100531.D03 Sample: 109N9-A STD



WHC-SD-WM-DP-137, REV. 1

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 217 TO 229.

Sample Name: PREP BLANK

Date: 10/05/1995 07:40:03

Data File : C:\DX\DATA\95100531.D02

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

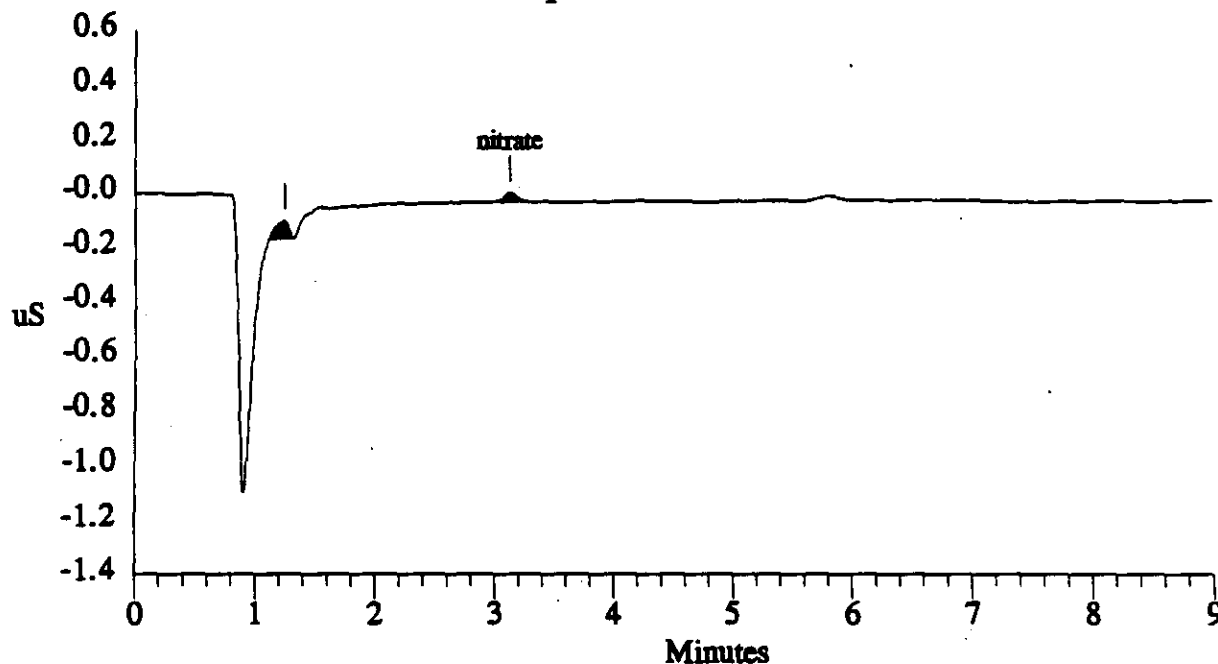
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.24		0.000	67	500	1	
2	3.13	nitrate	0.046	34	227	1	1.62
Totals			0.046	101	727		

File: 95100531.D02 Sample: PREP BLANK



WHC-SD-WM-DP-137, REV. 1

Sample Name: INSTR BLANK

Date: 10/05/1995 07:22:10

Data File : C:\DX\DATA\95100531.D01

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 1

Detector: CDM-1

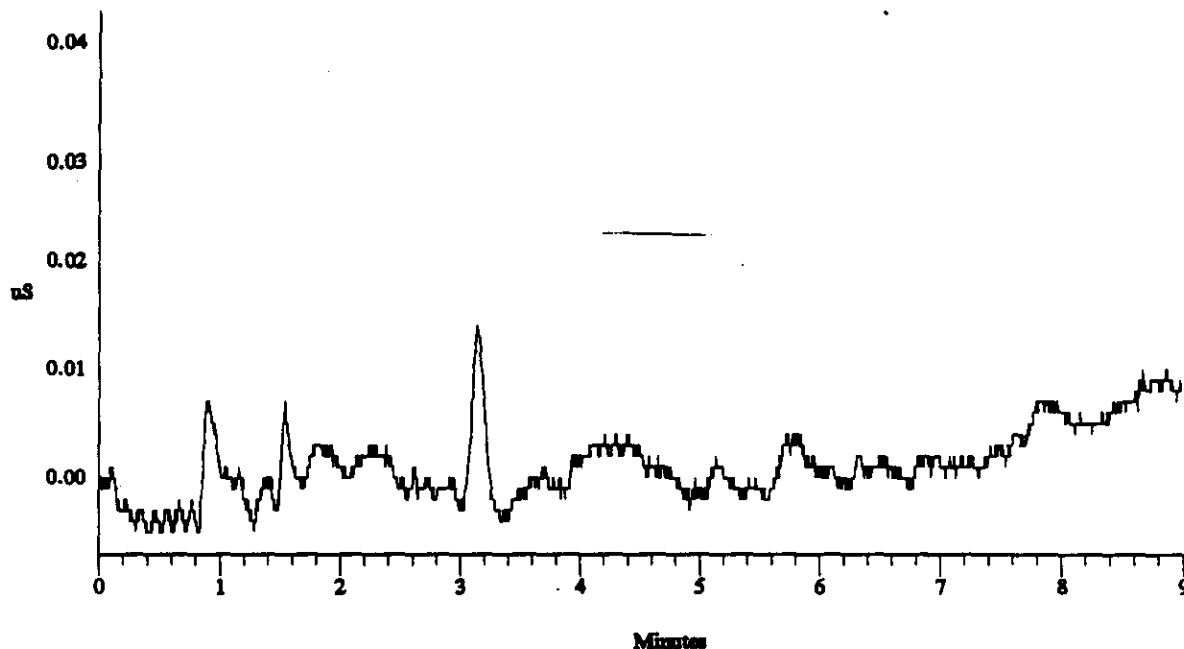
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95100531.D01 Sample: INSTR BLANK



WHC-SD-WM-DP- 137, REV. 1

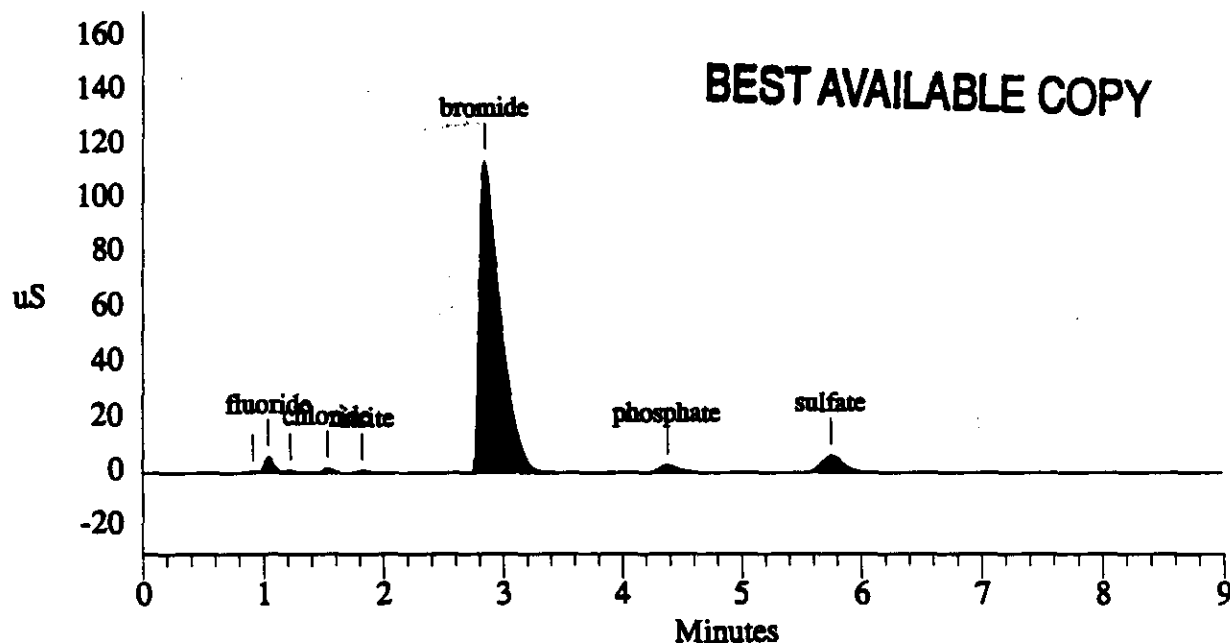
Sample Name: S95T001819 Date: 10/05/1995 08:12:08
 Data File : C:\DX\DATA\95100531.D04
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	158	531	2	
2	1.04	fluoride	0.000	158	531	3	-1.89
3	1.22		0.000	960	4914	4	
4	1.53	chloride	0.000	960	4914	1	0.66
5	1.82	nitrite	0.000	960	4914	1	0.00
6	2.85	bromide	-162.514	114887	1414344	1	5.56
7	4.38	phosphate	0.000	960	4914	1	-2.23
8	5.75	sulfate	0.000	960	4914	1	-2.71
Totals			441.668	134598	1588436		

File: 95100531.D04 Sample: S95T001819



WHC-SD-WM-DP-132, REV. 1

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=====
Sample Name: S95T001819                      Date: 10/05/1995 08:24:54
Data File  : C:\DX\DATA\95100531.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

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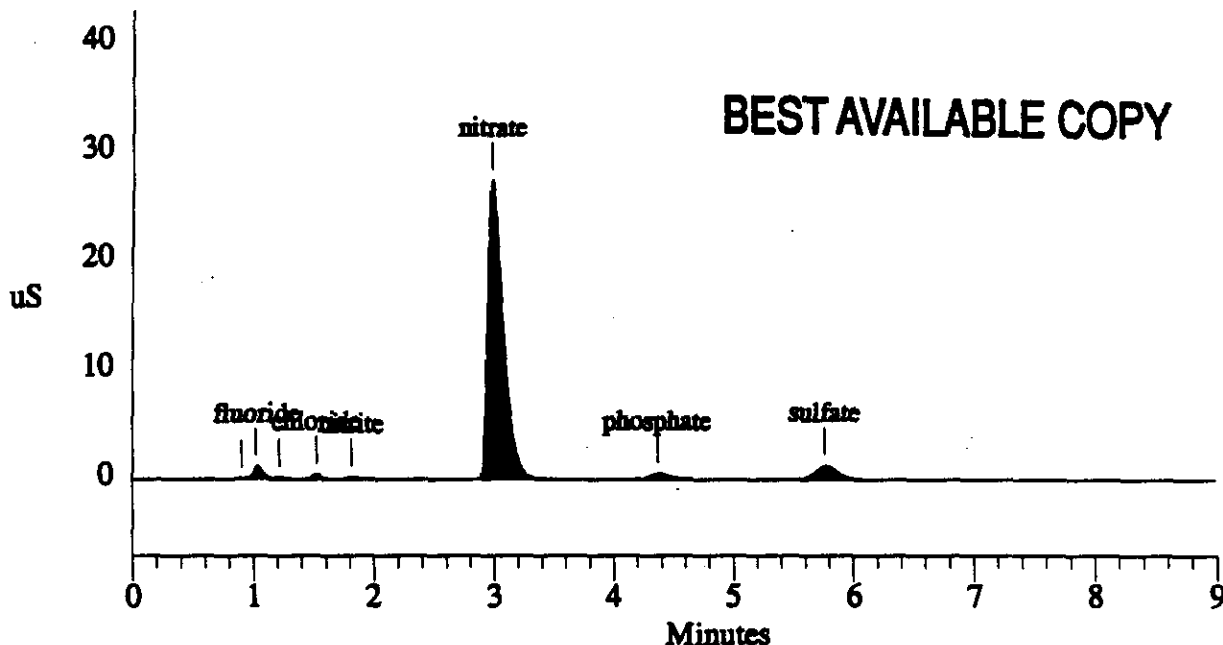
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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	50.239	1146	6301	3	-3.77
3	1.21		0.000	191	948	4	
4	1.52	chloride	24.949	477	2468	1	0.00
5	1.81	nitrite	24.676	229	1355	1	-0.55
6	2.99	nitrate	1888.686	23185	252022	1	-2.92
7	4.37	phosphate	263.762	560	6432	1	-2.46
8	5.76	sulfate	242.568	1312	17041	1	-2.54
Totals			4639.800	31321	287366		

File: 95100531.D05 Sample: S95T001819



WHC-SD-WM-DP-137, REV. 1

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*****
Sample Name: S95T001819  DUP                               Date: 10/05/1995 08:49:49
Data File  : C:\DX\DATA\95100531.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7                         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
*****

```

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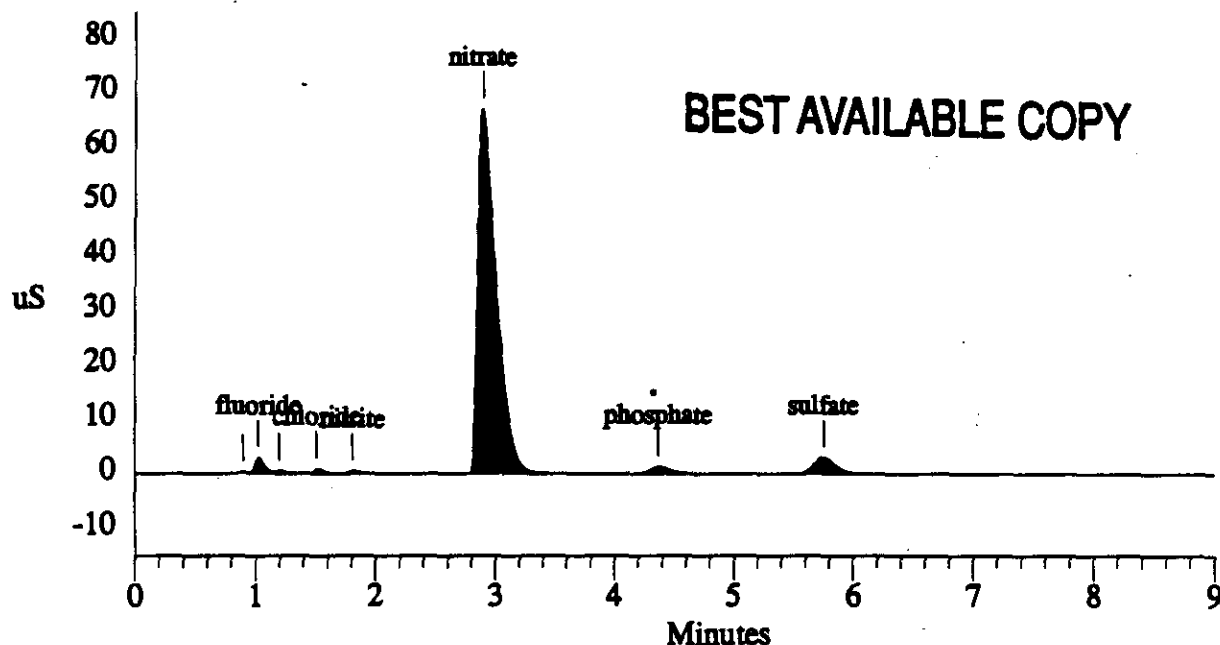
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700  5Hz   0.00   9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	91	286	2	
2	1.02	fluoride	25.133	288	25802	3	-3.77
3	1.20		0.000	429	2263	4	
4	1.51	chloride	11.183	81	3244	1	-0.66
5	1.81	nitrite	10.938	535	3130	1	-0.55
6	2.90	nitrate	1719.931	66944	735731	1	-5.84
7	4.37	phosphate	126.337	1333	13383	1	-2.46
8	5.75	sulfate	23.034	3180	41047	1	-2.71
Totals			2013.344	76362	818669		

File: 95100531.D07 Sample: S95T001819 DUP



WHC-SD-WM-DP- / 37, REV. 1

```

=====
Sample Name: S95T001819  DUP                               Date: 10/05/1995 08:37:58
Data File  : C:\DX\DATA\95100531.D06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 6                      Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

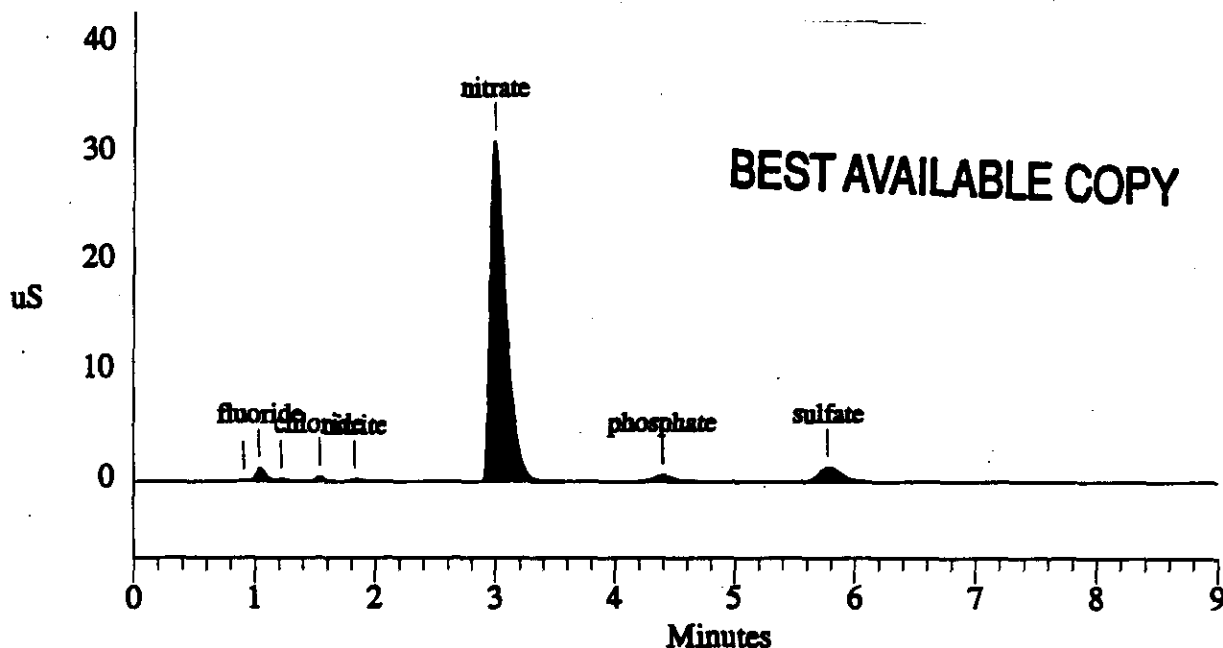
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           101   2700   5Hz   0.00   9.00       200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	53.403	1248	6707	3	-1.89
3	1.22		0.000	192	996	4	
4	1.54	chloride	23.378	449	2325	1	1.32
5	1.83	nitrite	24.469	235	1342	1	0.55
6	3.00	nitrate	5143.191	35211	325684	1	-2.60
7	4.40	phosphate	267.596	571	6530	1	-1.79
8	5.78	sulfate	251.172	1348	17658	1	-2.20
Totals			5143.191	35211	325684		

File: 95100531.D06 Sample: S95T001819 DUP



WHC-SD-WM-DP- 132, REV. 1

Sample Name: S95T001819 + SPIKE
 Data File : C:\DX\DATA\95100531.D08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8
 Analyst :

Date: 10/05/1995 09:02:08

Detector: CDM-1

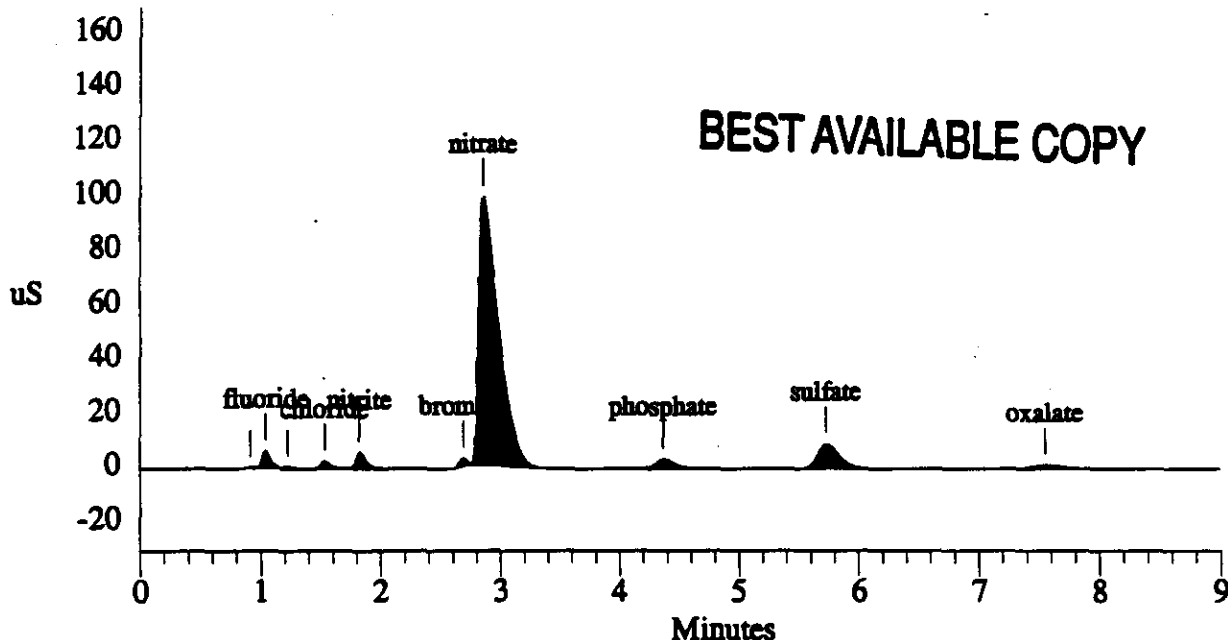
Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	154	480	2	
2	1.04	fluoride	0.000	154	480	3	-1.89
3	1.22		0.000	792	4048	4	
4	1.53	chloride	0.000	792	4048	1	0.66
5	1.82	nitrite	0.000	792	4048	1	0.00
6	2.69	bromide	0.000	792	4048	1	-0.37
7	2.86	nitrate	1700.286	98742	1174766	1	-7.14
8	4.37	phosphate	0.000	792	4048	1	-2.46
9	5.73	sulfate	0.000	792	4048	1	-3.05
10	7.55	oxalate	0.000	792	4048	1	-2.96
Totals			2767.627	133246	1472804		

File: 95100531.D08 Sample: S95T001819 + SPIKE



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001819 + SPIKE
 Data File : C:\DX\DATA\95100531.D09
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 9
 Analyst :

Date: 10/05/1995 09:11:56

Detector: CDM-1

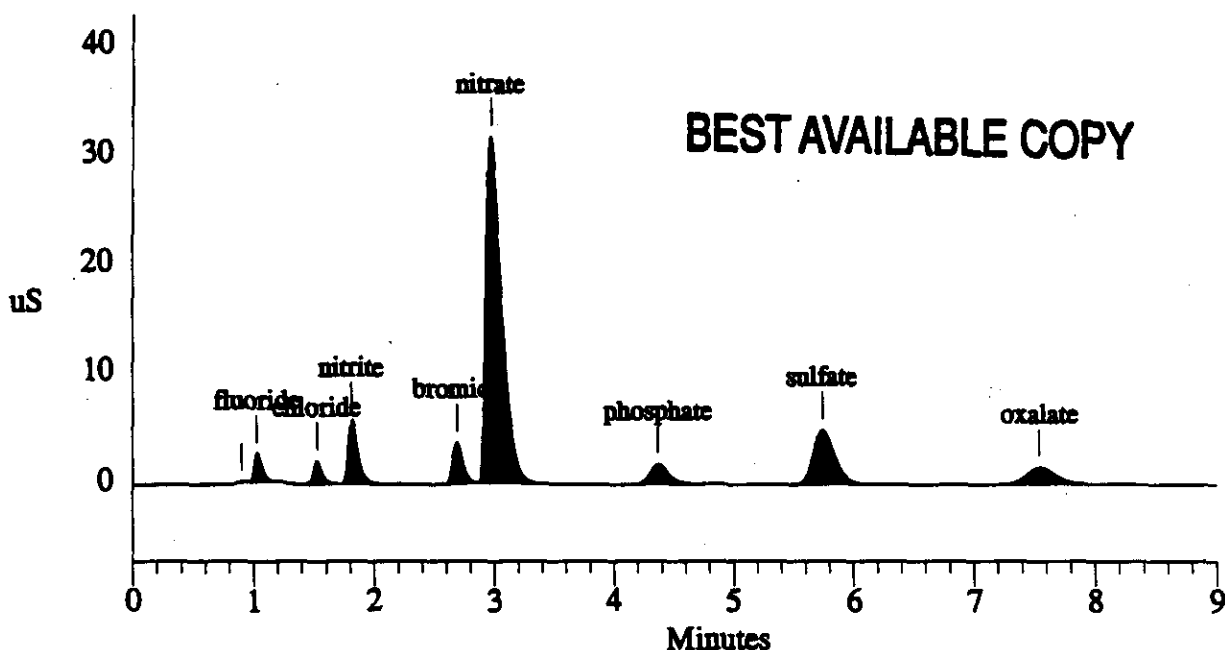
Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	73	222	1	
2	1.02	fluoride	101.653	2601	12996	1	-3.77
3	1.52	chloride	119.014	2158	11206	1	0.00
4	1.81	nitrite	547.967	5779	35104	1	-0.55
5	2.69	bromide	559.613	3818	23991	1	-0.37
6	2.97	nitrate	820.740	1868	21009	1	-3.57
7	4.37	phosphate	820.740	1868	21009	1	-2.46
8	5.74	sulfate	886.017	4954	64098	1	-2.88
9	7.54	oxalate	549.035	1588	26864	1	-3.08
Totals			8238.532	54587	495992		

File: 95100531.D09 Sample: S95T001819 + SPIKE



WHC-SD-WM-DP-137, REV. 1

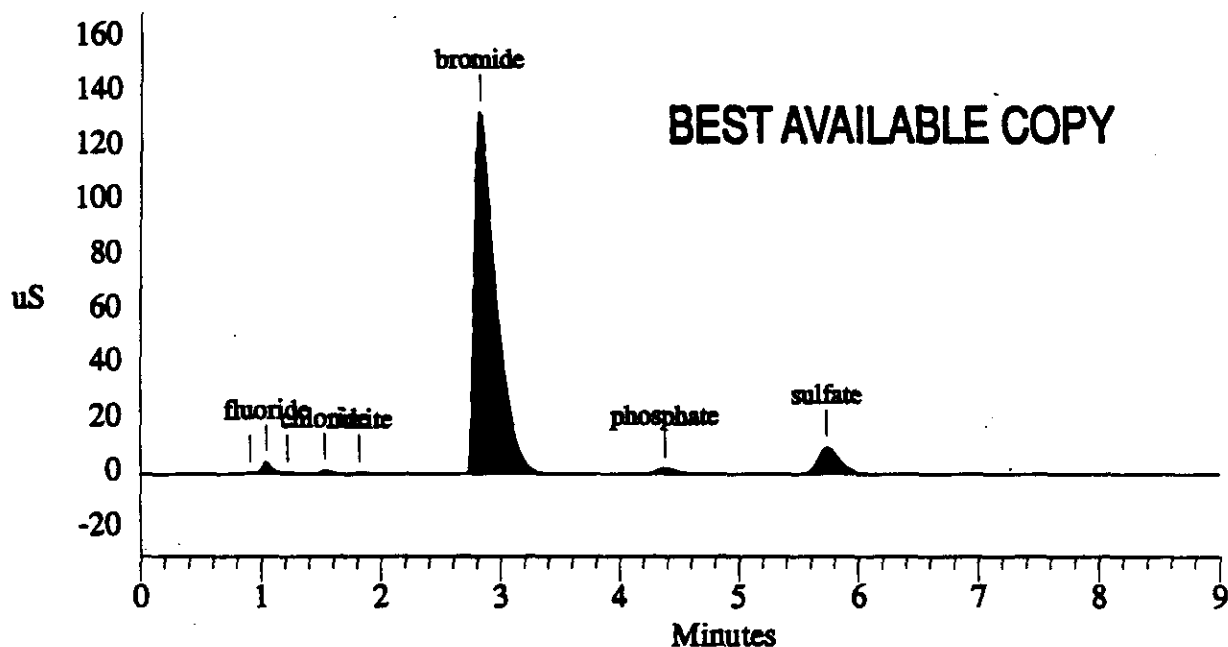
Sample Name: S95T001822 Date: 10/05/1995 10:23:11
 Data File : C:\DX\DATA\95100531.D11
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	190	654	2	
2	1.04	fluoride	0.000	190	654	3	-1.89
3	1.22		0.000	714	3703	4	
4	1.53	chloride	17.389	1128	27879	1	0.66
5	1.82	nitrite	18.898	1128	27879	1	0.00
6	2.82	bromide	-1779.964	133293	1683227	1	4.44
7	4.38	phosphate	0.000	1128	27879	1	-2.23
8	5.73	sulfate	0.000	1128	27879	1	-3.05
Totals			-1152.602	152665	1875128		

File: 95100531.D11 Sample: S95T001822



WHC-SD-WM-DP-137, REV. 1

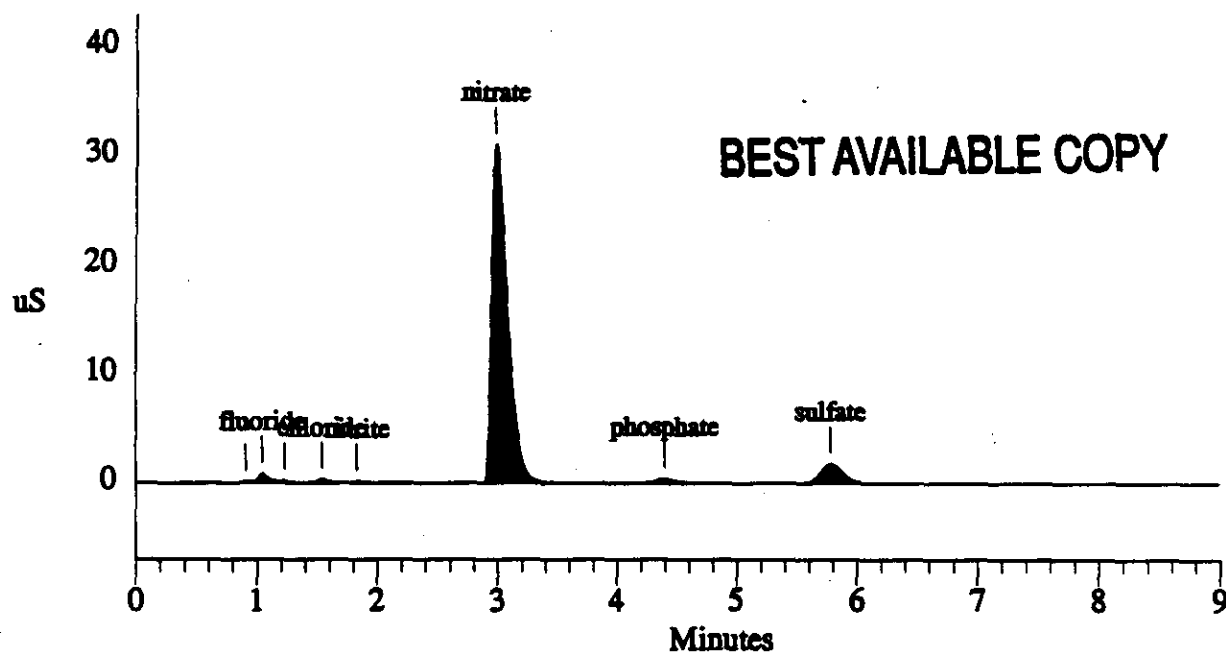
Sample Name: S95T001822 Date: 10/05/1995 09:21:44
 Data File : C:\DX\DATA\95100531.D10
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	52	210	2	
2	1.04	fluoride	34.948	836	4353	3	-1.89
3	1.23		0.000	139	690	4	
4	1.54	chloride	17.580	335	1797	1	1.32
5	1.83	nitrite	18.803	170	982	1	0.55
6	2.99	nitrate	193.608	413	4640	1	-2.92
7	4.40	phosphate	193.608	413	4640	1	-1.79
8	5.78	sulfate	337.507	1840	23861	1	-2.20
Totals			5162.002	34838	329518		

File: 95100531.D10 Sample: S95T001822



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001822 DUP Date: 10/05/1995 10:55:37
 Data File : C:\DX\DATA\95100531.D13
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 13 Detector: CDM-1
 Analyst : *EMD. Cohn* Column: AG4A/AS4A anion column/SRS

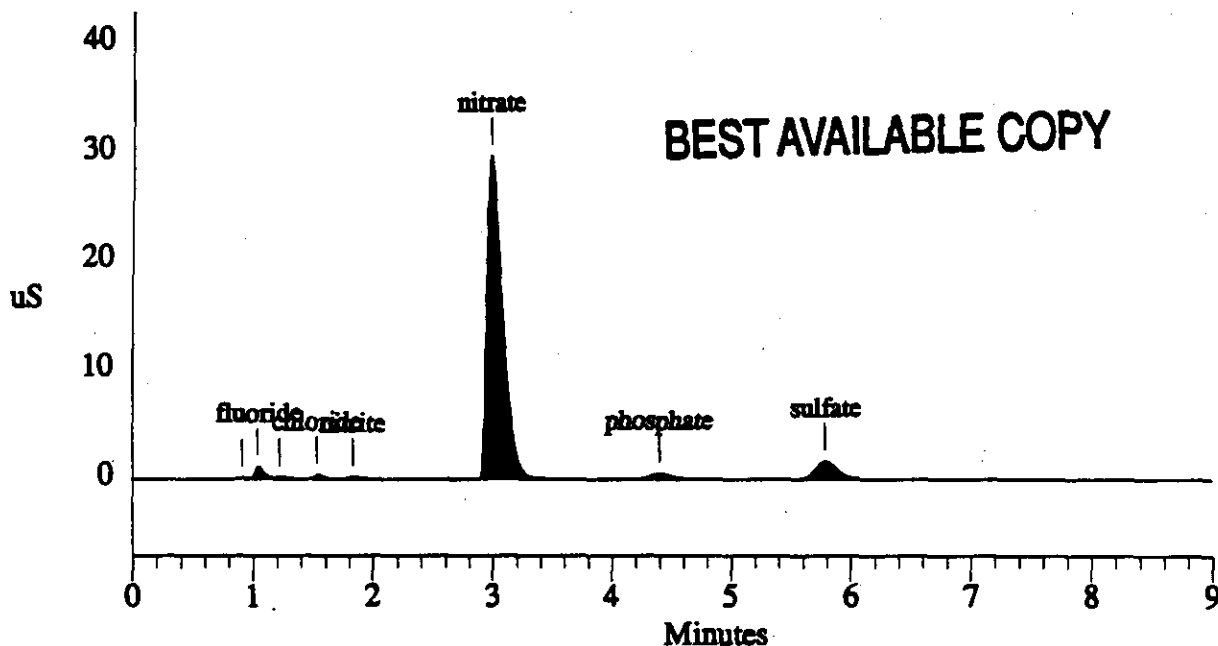
Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 101 2700 5Hz 0.00 9.00 200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	47.176	1136	5909	3	-1.89
3	1.22		0.000	179	949	4	
4	1.53	chloride	25.565	460	2524	1	0.66
5	1.83	nitrite	25.034	233	1378	1	0.55
6	2.99	nitrate	1545.333	3118	15453	1	-2.92
7	4.40	phosphate	261.337	563	6370	1	-1.79
8	5.79	sulfate	311.806	1684	22011	1	-2.03
Totals			5014.430	34008	315334		

File: 95100531.D13 Sample: S95T001822 DUP



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001822 DUP

Date: 10/05/1995 10:38:43

Data File : C:\DX\DATA\95100531.D12

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 12

Detector: CDM-1

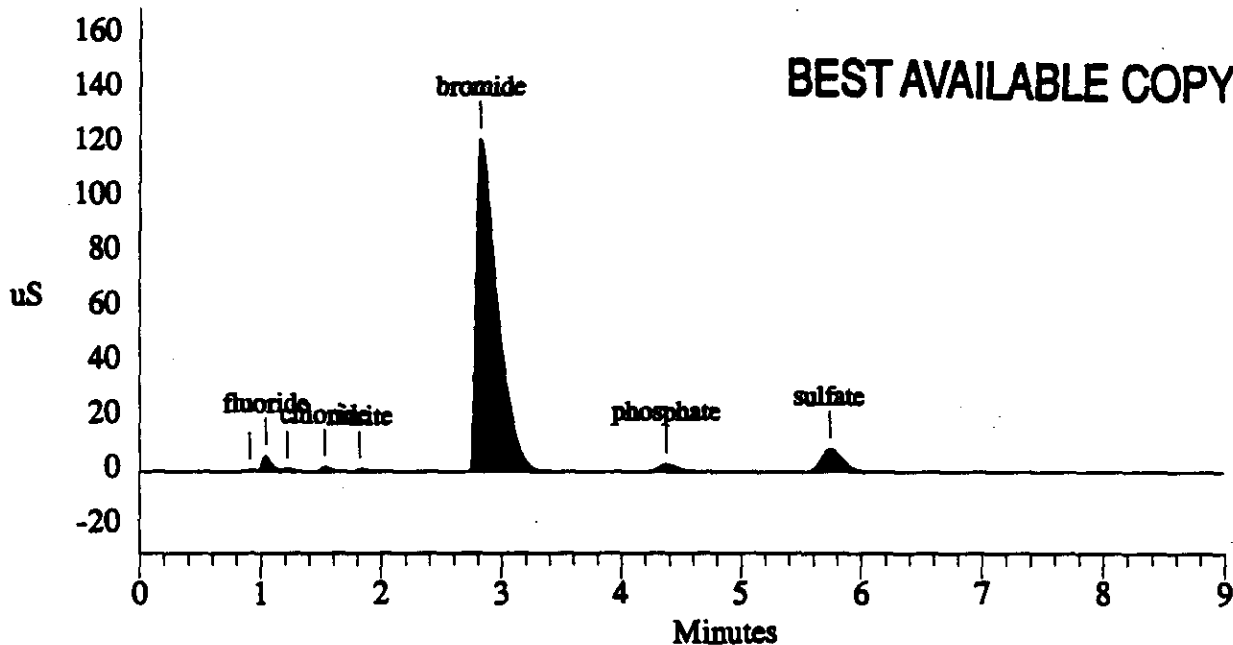
Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	184	645	2	
2	1.04	fluoride	0.000	534	22440	3	-1.89
3	1.22		0.000	906	4706	4	
4	1.53	chloride	0.000	3000	10028	1	0.66
5	1.82	nitrite	0.000	1051	10001	1	0.00
6	2.83	bromide	-681.214	121694	1510236	1	4.81
7	4.38	phosphate	0.000	2000	10000	1	-2.23
8	5.74	sulfate	0.000	2518	10000	1	-2.88
Totals			-23.018	142705	1704041		

File: 95100531.D12 Sample: S95T001822 DUP



WHC-SD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2665

Analyst: FHC Instrument: IC01 IC03 Book # 107174

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: b-104 IC, waterdigests. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP		BIC-01	F-02	SOLID	<u>2.063</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	CL-02	SOLID	<u>2.084</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	NO2-02	SOLID	<u>2.534</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	BR-02	SOLID	<u>2.150</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	NO3-02	SOLID	<u>2.699</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	PO4-02	SOLID	<u>2.596</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	SO4-02	SOLID	<u>2.678</u>	<u>N/A</u>		ug/g
		1 BLNK-PREP		BIC-01	OXALATE2	SOLID	<u>2.525</u>	<u>N/A</u>		ug/g
		2 STD		BIC-01	F-02	SOLID	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ug/g
		2 STD		BIC-01	CL-02	SOLID	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	ug/g
		2 STD		BIC-01	NO2-02	SOLID			<u>N/A</u>	ug/g
		2 STD		BIC-01	BR-02	SOLID			<u>N/A</u>	ug/g
		2 STD		BIC-01	NO3-02	SOLID			<u>N/A</u>	ug/g
		2 STD		BIC-01	PO4-02	SOLID			<u>N/A</u>	ug/g
		2 STD		BIC-01	SO4-02	SOLID			<u>N/A</u>	ug/g
		2 STD		BIC-01	OXALATE2	SOLID			<u>N/A</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001825	0 W	BIC-01	F-02	<u>N/A</u>	<u>3.50e3</u>	<u>9.42e1</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001825	0 W	BIC-01	CL-02	<u>N/A</u>	<u>2.36e3</u>	<u>1.32e2</u>	ug/g

Data Entry Comments:

*The spike recovery and Br in pos. This may be used by
to calculate for the GRI 10/10/95*

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	NO2-02	SOLID	N/A	2.02e3	ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	BR-02	SOLID	N/A	2.36e3	ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	NO3-02	SOLID	N/A	2.12e3	ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	PO4-02	SOLID	N/A	2.15e4	ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	SO4-02	SOLID	N/A	2.08e4	ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	81C-01	OXALATE2	SOLID	N/A	58.28e2	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	F-02	SOLID	3.50e3	3.57e3	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	CL-02	SOLID	2.26e3	2.02e3	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	NO2-02	SOLID	2.62e3	2.09e3	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	BR-02	SOLID	29.95e2	29.95e2	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	NO3-02	SOLID	2.62e3	2.64e3	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	PO4-02	SOLID	2.15e4	2.26e4	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	SO4-02	SOLID	2.08e4	2.22e4	ug/g
95000085	B-104	4 DUP	995T001825	0 W	81C-01	OXALATE2	SOLID	58.28e2	58.28e2	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	F-02	SOLID	95.3	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	CL-02	SOLID	73.6	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	NO2-02	SOLID	94.2	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	BR-02	SOLID	90.5	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	NO3-02	SOLID	107.8	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	PO4-02	SOLID	116.5	N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	81C-01	SO4-02	SOLID	107.1	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
5000085	B-104	5 SPK	S95T001825	0 W	BIC-01	OXALATE2	SOLID	11.2.4	N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	F-02	SOLID	N/A 3.442	2.121	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	CL-02	SOLID	N/A 2.082	1.212	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	NO2-02	SOLID	N/A 2.212	3.422	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	BR-02	SOLID	N/A 2.9542	9.542	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	NO3-02	SOLID	N/A 2.6525	5.072	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	PO4-02	SOLID	N/A 2.4024	9.24	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	SO4-02	SOLID	N/A 2.2824	1.022	ug/g
95000085	B-104	6 SAMPLE	S95T001826	0 W	BIC-01	OXALATE2	SOLID	N/A 2.7942	7.942	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	F-02	SOLID	3.4423	3.3623	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	CL-02	SOLID	2.0823	2.1123	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	NO2-02	SOLID	2.2123	2.2223	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	BR-02	SOLID	2.9542	2.9542	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	NO3-02	SOLID	2.6525	2.7125	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	PO4-02	SOLID	2.4024	2.3324	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	SO4-02	SOLID	2.2824	2.4524	ug/g
95000085	B-104	7 DUP	S95T001826	0 W	BIC-01	OXALATE2	SOLID	2.7942	2.7942	ug/g
		8 CCB			BIC-01	F-02	SOLID	2.063	N/A	ug/g
		8 CCB			BIC-01	CL-02	SOLID	2.084	N/A	ug/g
		8 CCB			BIC-01	NO2-02	SOLID	2.534	N/A	ug/g
		8 CCB			BIC-01	BR-02	SOLID	2.150	N/A	ug/g
		8 CCB			BIC-01	NO3-02	SOLID	2.699	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		8 CCB		8IC-01	PO4-02	SOLID		5.596	N/A	ug/g
		8 CCB		8IC-01	SO4-02	SOLID		2.678	N/A	ug/g
		8 CCB		8IC-01	OXALATE2	SOLID		5.535	N/A	ug/g
		9 CCV		8IC-01	F-02	SOLID		1.13	N/A	ug/g
		9 CCV		8IC-01	CL-02	SOLID		79.99	N/A	ug/g
		9 CCV		8IC-01	NO2-02	SOLID		565.1	N/A	ug/g
		9 CCV		8IC-01	BR-02	SOLID		556.7	N/A	ug/g
		9 CCV		8IC-01	NO3-02	SOLID		577.3	N/A	ug/g
		9 CCV		8IC-01	PO4-02	SOLID		539.3	N/A	ug/g
		9 CCV		8IC-01	SO4-02	SOLID		601.4	N/A	ug/g
		9 CCV		8IC-01	OXALATE2	SOLID		580.1	N/A	ug/g

Final page for worklist #

2665

Originally signed by Ed Chovin 10/5/95
Analyst Signature Date
J. M. Luge 10/9/95

Analyst Signature Date
10-11-95

Verified 10/13/95 J. M. Luge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

Analyst: EE Instrument: IC01 IC03 Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: b-104 IC, waterdigests. JMF Especially need B-

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				BIC-01 F-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 CL-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 NO2-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 BR-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 NO3-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 PO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 SO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				BIC-01 OXALATE2	SOLID			N/A	ug/g
		2	STD				BIC-01 F-02	SOLID			N/A	ug/g
		2	STD				BIC-01 CL-02	SOLID			N/A	ug/g
		2	STD				BIC-01 NO2-02	SOLID			N/A	ug/g
		2	STD				BIC-01 BR-02	SOLID			N/A	ug/g
		2	STD				BIC-01 NO3-02	SOLID			N/A	ug/g
		2	STD				BIC-01 PO4-02	SOLID			N/A	ug/g
		2	STD				BIC-01 SO4-02	SOLID			N/A	ug/g
		2	STD				BIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3	SAMPLE	S95T001825	0	W	BIC-01 F-02	SOLID	N/A			ug/g
95000085	B-104	3	SAMPLE	S95T001825	0	W	BIC-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

SAMPLE DUP
S95T001825 13.340 13.3920
S95T001826 13.9120 14.0760

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	NO2-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	BR-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	NO3-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	PO4-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	SO4-02	SOLID	N/A		ug/g
95000085	B-104	3 SAMPLE	995T001825	0 W	8IC-01	OXALATE2	SOLID	N/A		ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	995T001825	0 W	8IC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	995T001825	0 W	8IC-01	SO4-02	SOLID		N/A	ug/g

Data Entry Comments:

LMCS 109N9-A, 100 ml - 10 ml

SPIKE 109N9-A, 100 ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2665

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	995T001825	0 W	81C-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	F-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	CL-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	NO2-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	BR-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	NO3-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	PO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	SO4-02	SOLID	N/A		ug/g
95000085	B-104	6 SAMPLE	995T001826	0 W	81C-01	OXALATE2	SOLID	N/A		ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	F-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	BR-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	995T001826	0 W	81C-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist #

2665

P.H. Cole 10-5-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET

ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001825 & S95T001826 TEST CODE: @ic-01 INSTRUMENT: lc03 WORK LIST #: 2665 BATCH ID:	ANALYST: Ed Colvin ANALYSIS DATE: 10/05/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	---

Result Units	mg	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		103.9%	101.3%	94.8%	94.0%	98.8%	95.3%	95.5%	110.3%
S95T001825		3.60E+03	2.26E+03	2.02E+03	2.62E+05	2.15E+04	2.08E+04	<236.24	<826.83
S95T001825dup		3.57E+03	2.02E+03	2.09E+03	2.64E+05	2.28E+04	2.22E+04	<235.22	<823.25
Duplicate 1 RPD		1.9%	11.0%	3.3%	0.6%	4.8%	6.3%	N/A	N/A
S95T001826		3.44E+03	2.08E+03	2.21E+03	2.65E+05	2.40E+04	2.28E+04	<226.42	<792.48
S95T001826dup		3.36E+03	2.11E+03	2.22E+03	2.71E+05	2.33E+04	2.45E+04	<223.47	<782.14
Duplicate 2 RPD		2.2%	1.4%	0.5%	2.0%	2.9%	7.2%	N/A	N/A
S95T001825epk		95.3%	73.0%	94.2%	107.8%	110.5%	107.1%	90.5%	112.4%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>[Signature]</i>	Date: 10/10/95
Chemist Approval: <i>[Signature]</i>	Date: 10/10/95

237

LAB LEADER INFO	
Student:	LA-432-1065 D-1
Section:	solid
Test Code:	010-01
Start List #:	20045
Batch #:	
Tested Units	
Units on Initial:	1079
Initial Batch Number:	100000A
Initial Sample #:	1
Prepared By:	Joan Frye
Prepared Date:	10/09/96
Chemist:	Joan Frye
Analyst:	Ed Cobble
Analyte Date:	10/09/96
Test Complete:	11:29 AM
Instrument Code:	1005
Notes:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	100000A
SAMPLE 1	0007091025
DUPPLICATE 1	0007091025dup
SAMPLE 2	0007091025
DUPPLICATE 2	0007091025dup
SAMPLE 3	
DUPPLICATE 3	
SAMPLE 4	
DUPPLICATE 4	
SPICE	0007091025dup
SPICE DUPLICATE	

TECH INFO						
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate
Blank Data (µg/mL)	<.003	<.004	<.004	<.009	<.008	<.070
Standard Data (µg/mL)	01.3	70.00	004.13	077.20	030.35	007.30
Sample 1 Data (µg/mL)	4.070±01	3.010±01	2.000±01	3.000±03	2.070±02	2.770±02
Sample 1 Dilution Factor	21	21	21	101	21	21
Sample 1 Prep DF	13.334	13.334	13.334	13.334	13.334	13.334
Duplicate 1 Data (µg/mL)	4.700±01	2.710±01	2.000±01	3.000±03	3.020±02	2.070±02
Duplicate 1 Dilution Factor	21	21	21	101	21	21
Duplicate 1 Prep DF	13.302	13.302	13.302	13.302	13.302	13.302
Sample 2 Data (µg/mL)	4.700±01	2.000±01	3.070±01	3.000±03	3.040±02	3.170±02
Sample 2 Dilution Factor	21	21	21	101	21	21
Sample 2 Prep DF	13.012	13.012	13.012	13.012	13.012	13.012
Duplicate 2 Data (µg/mL)	4.700±01	2.070±01	3.100±01	3.010±03	3.200±02	3.000±02
Duplicate 2 Dilution Factor	21	21	21	101	21	21
Duplicate 2 Prep DF	14.000	14.000	14.000	14.000	14.000	14.000
Sample 3 Data (µg/mL)						
Sample 3 Dilution Factor						
Sample 3 Prep DF						
Duplicate 3 Data (µg/mL)						
Duplicate 3 Dilution Factor						
Duplicate 3 Prep DF						
Sample 4 Data (µg/mL)						
Sample 4 Dilution Factor						
Sample 4 Prep DF						
Duplicate 4 Data (µg/mL)						
Duplicate 4 Dilution Factor						
Duplicate 4 Prep DF						
Sample 5 Data (µg/mL)	0.700±01	4.100±01	1.270±02	4.100±03	4.000±02	4.130±02
Sample 5 Dilution Factor						
Sample 5 Prep DF						
Duplicate 5 Data (µg/mL)						
Duplicate 5 Dilution Factor						
Duplicate 5 Prep DF						

Syringe Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.00	10.00	10.10	10.00	10.00	10.00
Biol. Conc. (ng/mL)	89	79	833	640	831	876
Detection Limit	0.003	0.004	0.004	0.000	0.078	0.100
Metric Detection Limit 1	0.00E+01	1.32E+02	8.73E+02	5.29E+03	1.07E+03	2.36E+03
Metric Detection Limit 2	0.01E+01	1.27E+02	8.30E+02	8.07E+03	1.02E+03	2.28E+02
Metric Detection Limit 3	EPRC	EPRC	EPRC	EPRC	EPRC	EPRC
Metric Detection Limit 4	EPRC	EPRC	EPRC	EPRC	EPRC	EPRC

[illegible][illegible]

Date Entry by: <i>David Hayes</i>	Date: 10/10/95
Approved by: <i>David Hayes</i>	Date: 10/12/95

Sample Name: 109N9-A STD
Data File : C:\DX\DATA\95100531.D04
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 4
Analyst : Ed Colvin Column:

Date: 10/05/1995 08:20:54

Detector: CDM-2

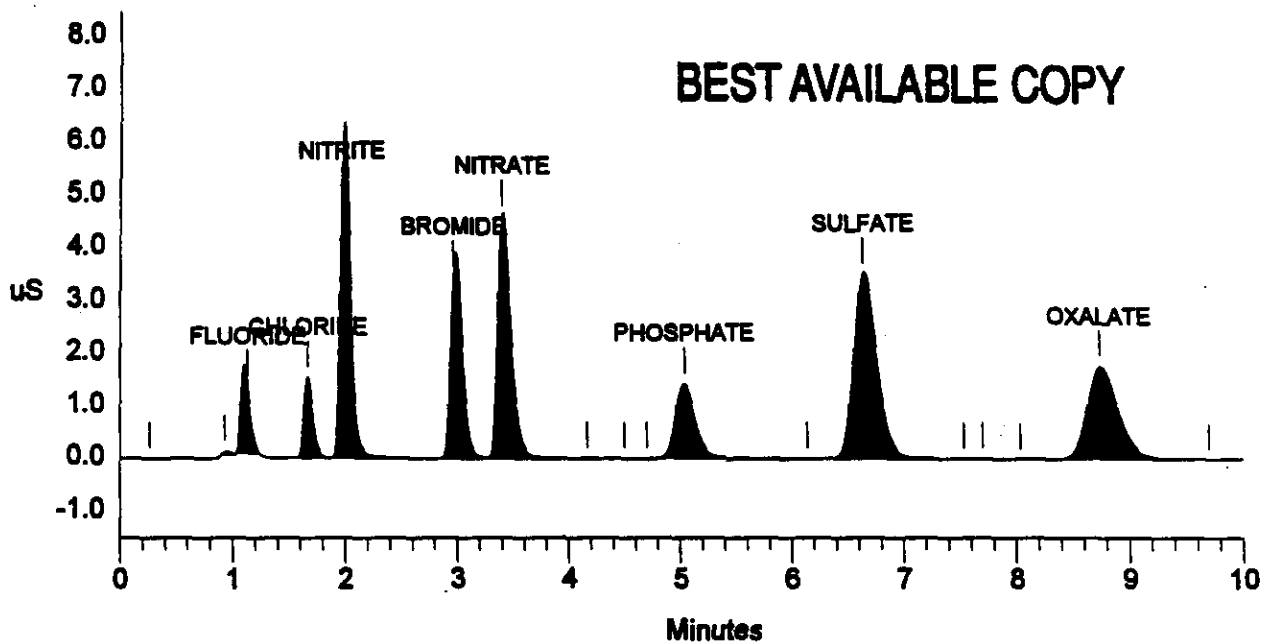
E. J. Colvin 10-05-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	61.345	1258958	8940960	1	3.03
4	1.67	CHLORIDE	79.990	1537495	8534184	1	2.04
5	1.97	NITRITE	505.134	4872835	39751030	1	0.00
6	2.97	BROMIDE	550.694	3451690	28253214	2	2.30
7	3.40	NITRATE	577.280	4607300	38930006	3	4.08
11	5.03	PHOSPHATE	539.253	1429002	17797728	1	2.03
13	6.63	SULFATE	601.358	3510571	51801374	2	2.05
17	8.73	OXALATE	580.001	1762201	34404577	2	2.34
Totals			3495.053	22430052	228413072		

File: 95100531.D04 Sample: 109N9-A STD



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 239 TO 252.

239

WHC-SD-WM-DP-137, REV. 1


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=====
Sample Name: PREP BLANK                      Date: 10/05/1995 07:40:45
Data File  : C:\DX\DATA\95100531.D02
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2          Detector: CDM-2
Analyst    : Ed Colvin                      Column:
=====

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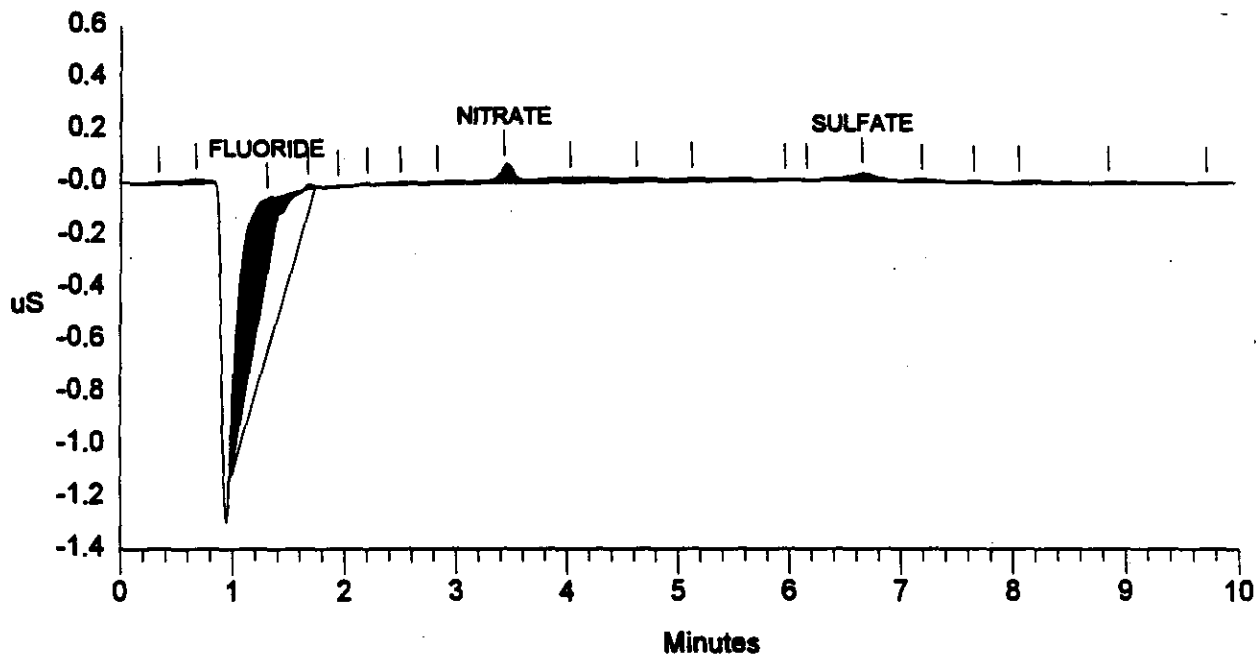
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           1 3000 5Hz 0.00 10.00 500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.30	FLUORIDE	1.027	596406	15202868	3	18.18
9	3.43	NITRATE	0.172	64354	875395	2	5.10
10	4.03		0.000	18785	633060	2	
15	6.67	SULFATE	0.120	28904	550936	2	2.56
Totals			1.319	708449	17262259		

File: 95100531.D02 Sample: PREP BLANK



WHC-SD-WM-DP-131, REV L

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=====
Sample Name: INSTR BLANK                      Date: 10/05/1995 07:18:57
Data File  : C:\DX\DATA\95100531.D01
Method     : C:\DX\METHOD\ANIONS.MET
PCI Address: 1 System: 2 Inject#: 1           Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

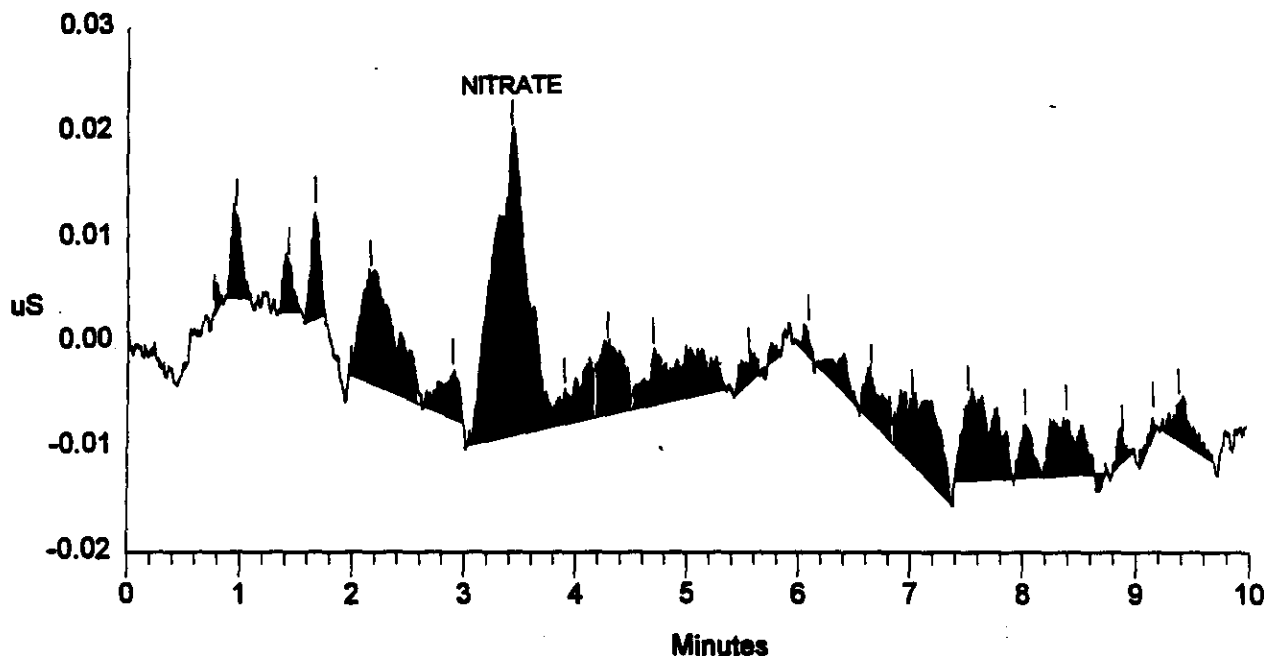
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    3000  5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
7	3.43	NITRATE	0.135	28531	624716	3	5.10
Totals			0.135	28531	624716		

File: 95100531.D01 Sample: INSTR BLANK



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001825 Date: 10/05/1995 08:48:33
 Data File : C:\DX\DATA\95100531.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 6 Detector: CDM-2
 Analyst : Ed Colvin Column:

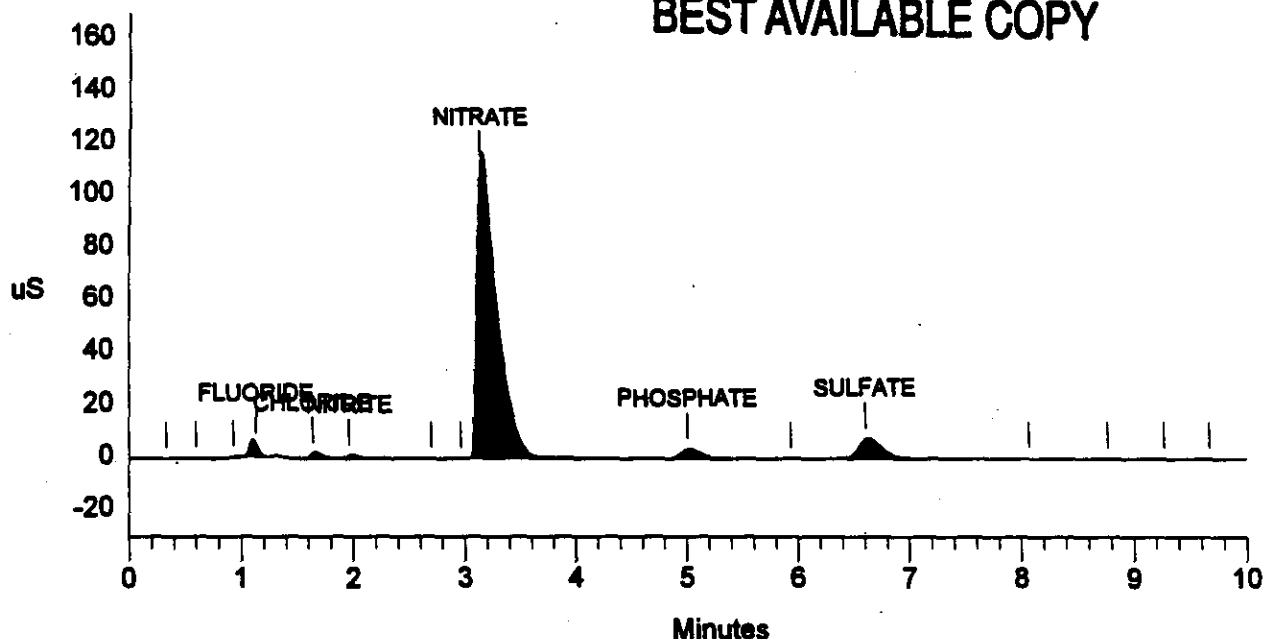
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	254600	974800	1	
4	1.13	FLUORIDE				1	3.03
5	1.63	CHLORIDE				2	0.00
6	1.97	NITRITE				2	0.00
9	3.13	NITRATE	2192.450	110885759	1447714491	2	-4.08
10	5.00	PHOSPHATE				3	1.35
11	5.93		0.000	18389	502059	4	
12	6.60	SULFATE				3	1.54
Totals			2860.590	130500075	1673225350		

File: 95100531.D06 Sample: S95T001825

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WHC-SD-WM-DP-137, REV. 1

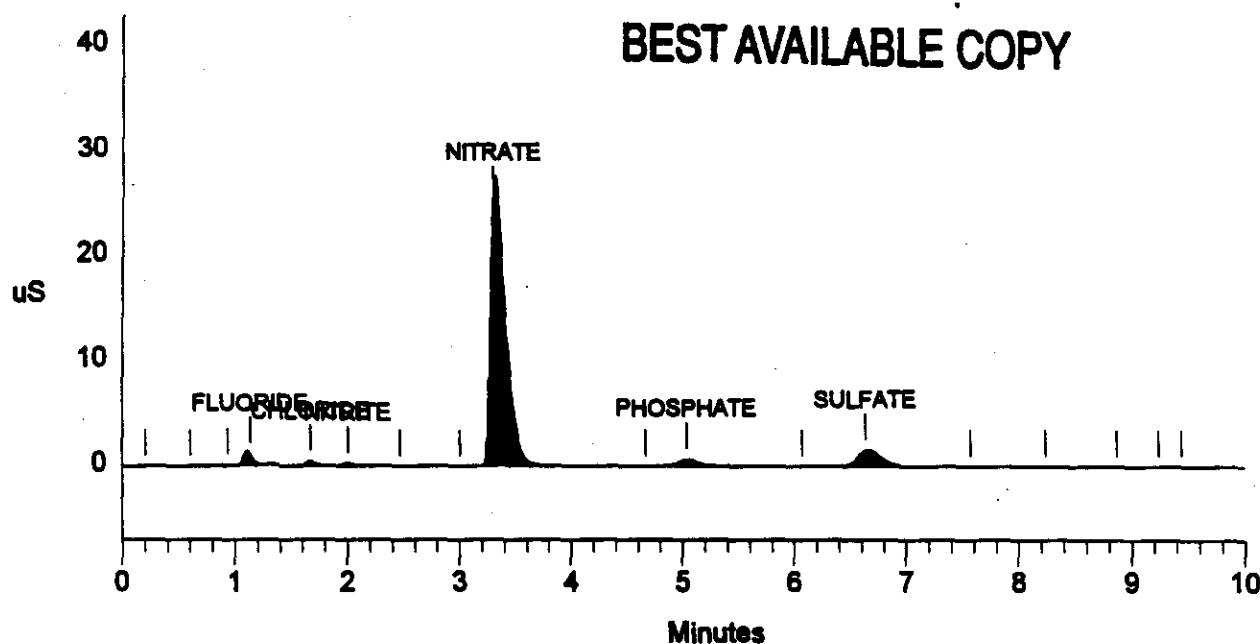
Sample Name: S95T001825 Date: 10/05/1995 08:59:24
 Data File : C:\DX\DATA\95100531.D07
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 7 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	51.262	1100651	7479208	1	3.03
5	1.67	CHLORIDE	26.307	476799	2785786	1	2.04
6	2.00	NITRITE	32.425	287499	1756834	1	1.69
9	3.30	NITRATE	285.429	1547345	24126010	3	1.02
11	5.03	PHOSPHATE	281.117	697438	9212155	3	2.03
13	6.63	SULFATE	285.429	1547345	24126010	2	2.05
Totals			4172.819	29149062	302804894		

File: 95100531.D07 Sample: S95T001825



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001825 DUP
 Data File : C:\DX\DATA\95100531.D09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9
 Analyst : Ed Colvin Column:

Date: 10/05/1995 10:13:35

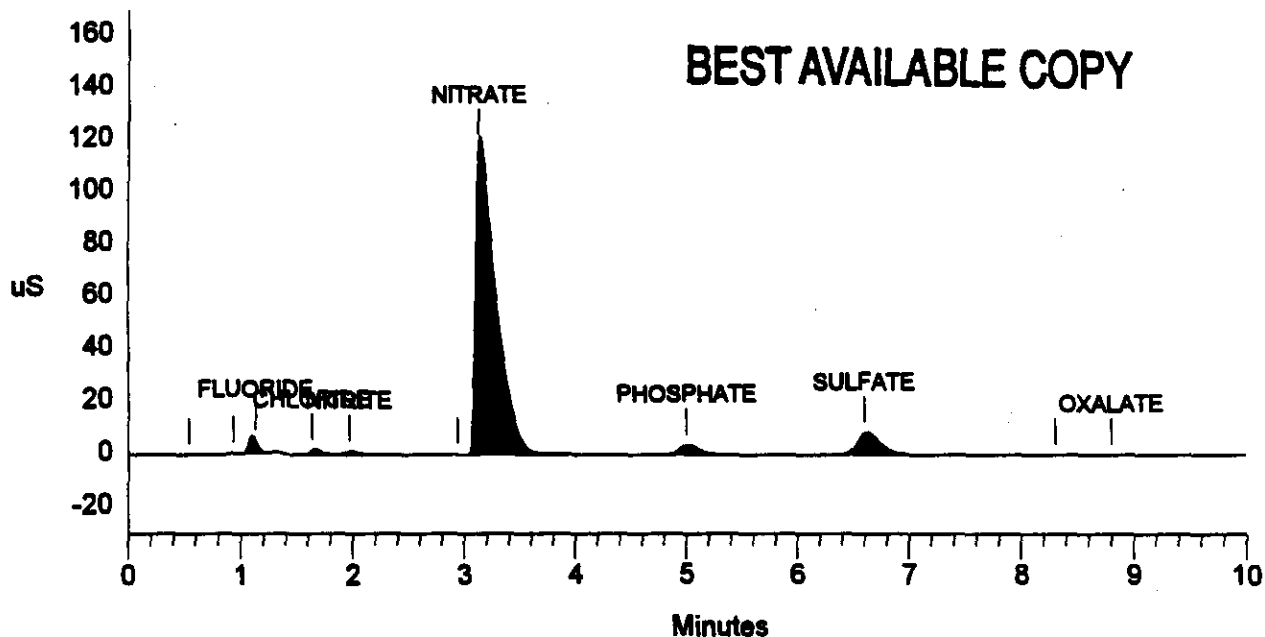
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	272267	1040680	1	
3	1.13	FLUORIDE				1	3.03
4	1.63	CHLORIDE				1	0.00
5	1.97	NITRITE				1	0.00
7	3.13	NITRATE	2179.676	118307454	1526652403	2	-4.08
8	5.00	PHOSPHATE				2	1.35
9	6.60	SULFATE				2	1.54
11	8.80	OXALATE	2.270	17676	710506	2	3.13
Totals			2883.944	138637965	1763382401		

File: 95100531.D09 Sample: S95T001825 DUP



WHC-SD-WM-DP-132, REV. 1

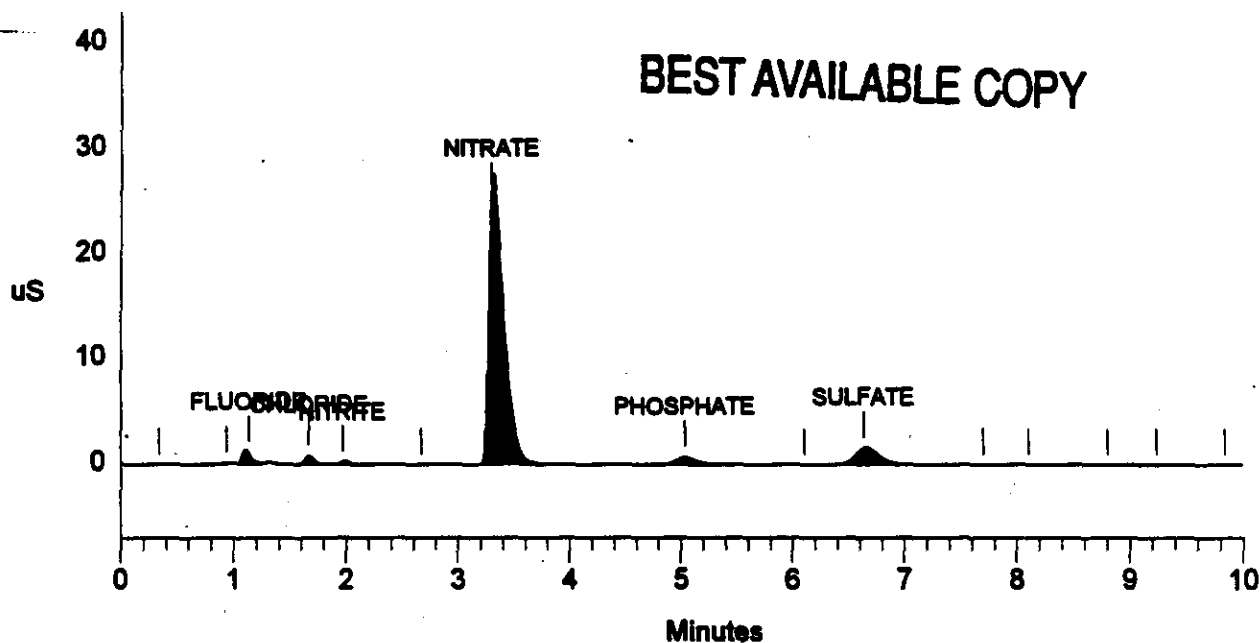
Sample Name: S95T001825 DUP Date: 10/05/1995 09:10:12
 Data File : C:\DX\DATA\95100531.D08
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 8 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	51.067	1069230	7451014	1	3.03
4	1.67	CHLORIDE	46.279	887305	4911300	1	2.04
5	1.97	NITRITE	33.106	239398	1811202	1	0.00
7	3.30	NITRATE	279.603	698067	9162184	2	1.02
8	5.03	PHOSPHATE	279.603	698067	9162184	3	2.03
10	6.63	SULFATE	300.282	1633112	25416848	2	2.05
Totals			4243.375	29802423	309213196		

File: 95100531.D08 Sample: S95T001825 DUP



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001825 + SPIKE

Date: 10/05/1995 10:28:08

Data File : C:\DX\DATA\95100531.D10

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 10

Detector: CDM-2

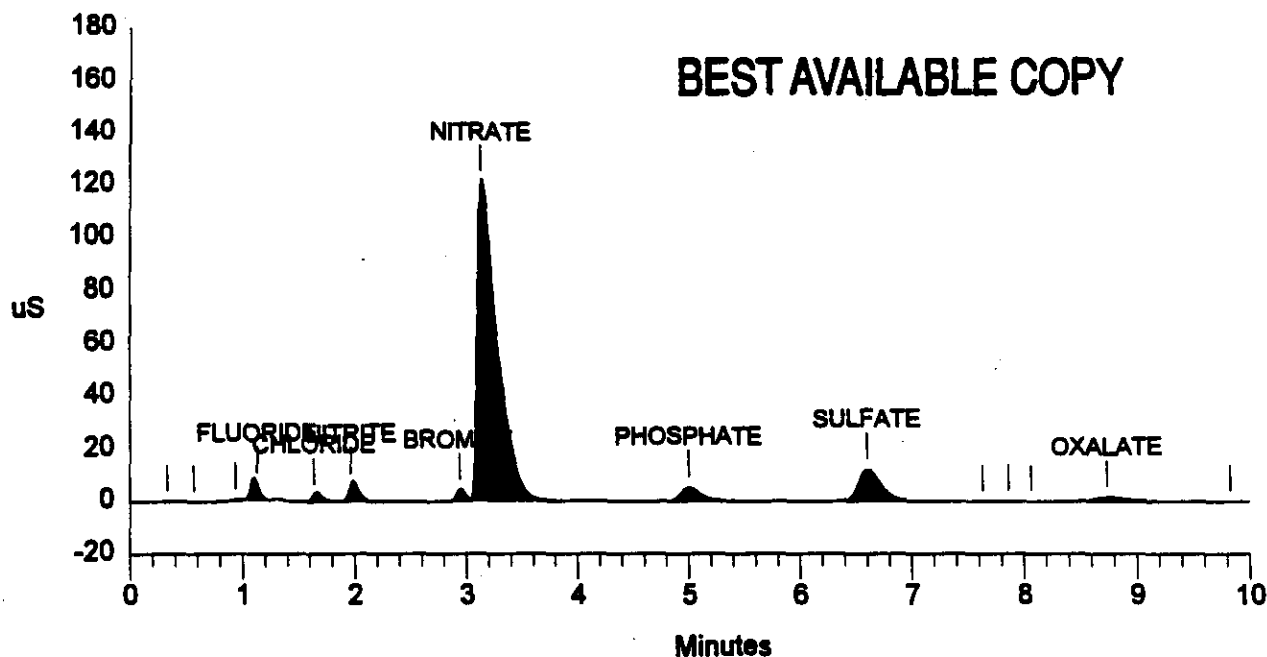
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	305867	1157780	1	
4	1.13	FLUORIDE	57.944	6231100	43579340	1	3.03
5	1.63	CHLORIDE	41.615	2703870	21832212	1	0.00
6	1.97	NITRITE	127.343	6440635	48446838	1	0.00
7	2.93	BROMIDE	104.189	4269692	25637280	2	1.15
8	3.13	NITRATE	2177.718	121143266	1534279538	2	-4.08
9	5.00	PHOSPHATE	407.642	5474930	67541412	1	1.35
10	6.60	SULFATE	412.645	12272437	178906836	1	1.54
14	8.73	OXALATE	118.240	1726597	33728154	1	2.34
Totals			3447.335	160568394	1955109390		

File: 95100531.D10 Sample: S95T001825 + SPIKE



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001825 + SPIKE

Date: 10/05/1995 10:28:08

Data File : C:\DX\DATA\95100531.D10

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 10

Detector: CDM-2

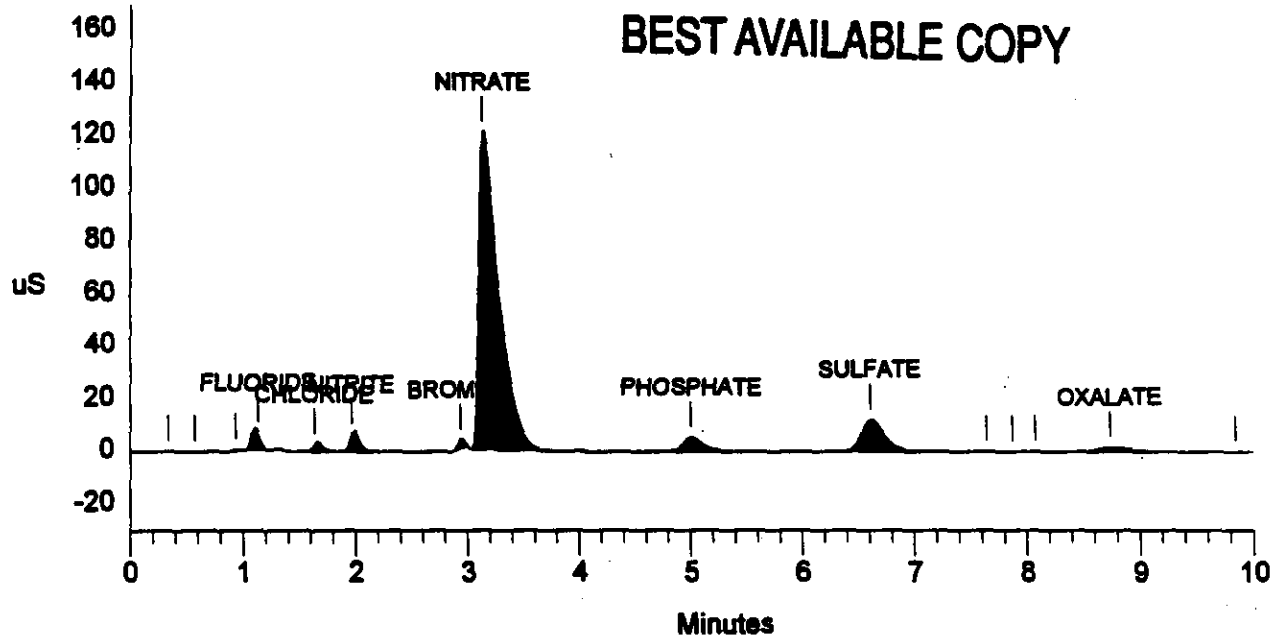
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	305867	1157780	1	
4	1.13	FLUORIDE				1	3.03
5	1.63	CHLORIDE				1	0.00
6	1.97	NITRITE				1	0.00
7	2.93	BROMIDE				1	1.15
8	3.13	NITRATE	2181.790	120611219	1517799080	1	-4.08
9	5.00	PHOSPHATE				1	1.35
10	6.60	SULFATE				1	1.54
14	8.73	OXALATE				1	2.34
Totals			3407.589	159002406	1927602082		

File: 95100531.D10 Sample: S95T001825 + SPIKE



WHC-SD-WM-DP-137, REV. 1

247

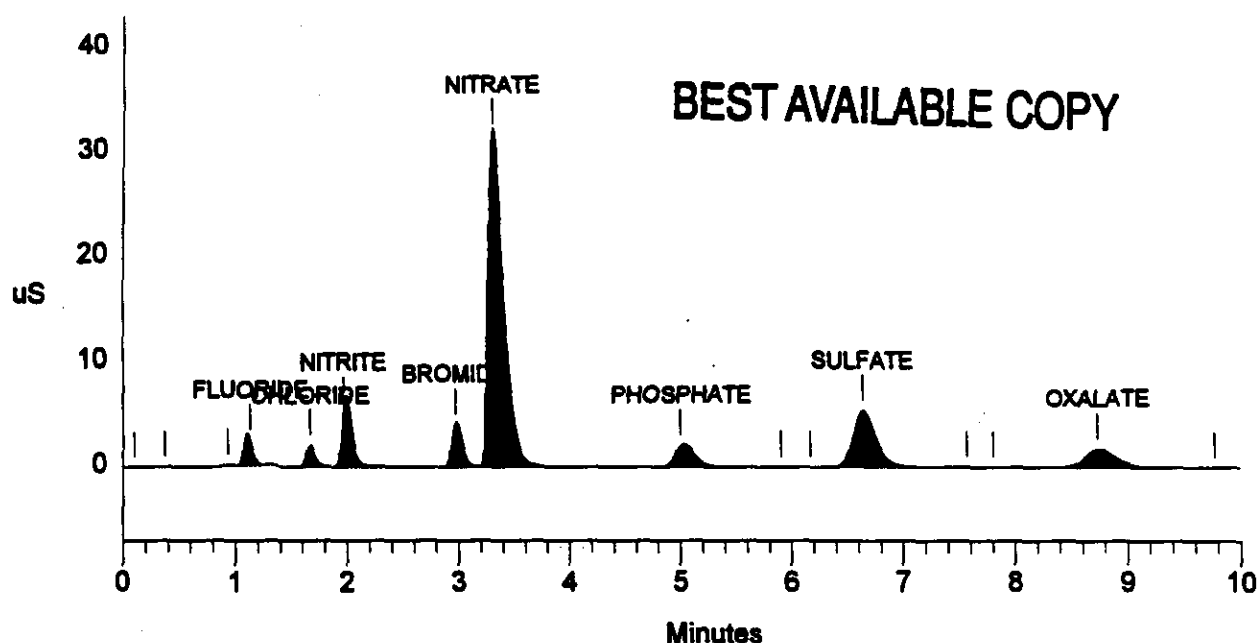
Sample Name: S95T001825 + SPIKE Date: 10/05/1995 10:38:59
 Data File : C:\DX\DATA\95100531.D11
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 11 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	110.141	2350697	16172520	1	3.03
5	1.67	CHLORIDE	107.647	2042768	11540588	1	2.04
6	1.97	NITRITE	531.528	5113268	41887128	1	0.00
7	2.97	BROMIDE	572.055	4076783	29382411	2	2.30
8	3.30	NITRATE	7810.555	54414696	553148006	2	1.02
9	5.00	PHOSPHATE	845.322	2076372	28144396	2	1.35
12	6.63	SULFATE	895.536	5346085	77996830	1	2.05
15	8.73	OXALATE	590.136	1776906	35010200	1	2.34
Totals			7810.555	54414696	553148006		

File: 95100531.D11 Sample: S95T001825 + SPIKE



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001826

Date: 10/05/1995 11:06:15

Data File : C:\DX\DATA\95100531.D13

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 13

Detector: CDM-2

Analyst : Ed Colvin

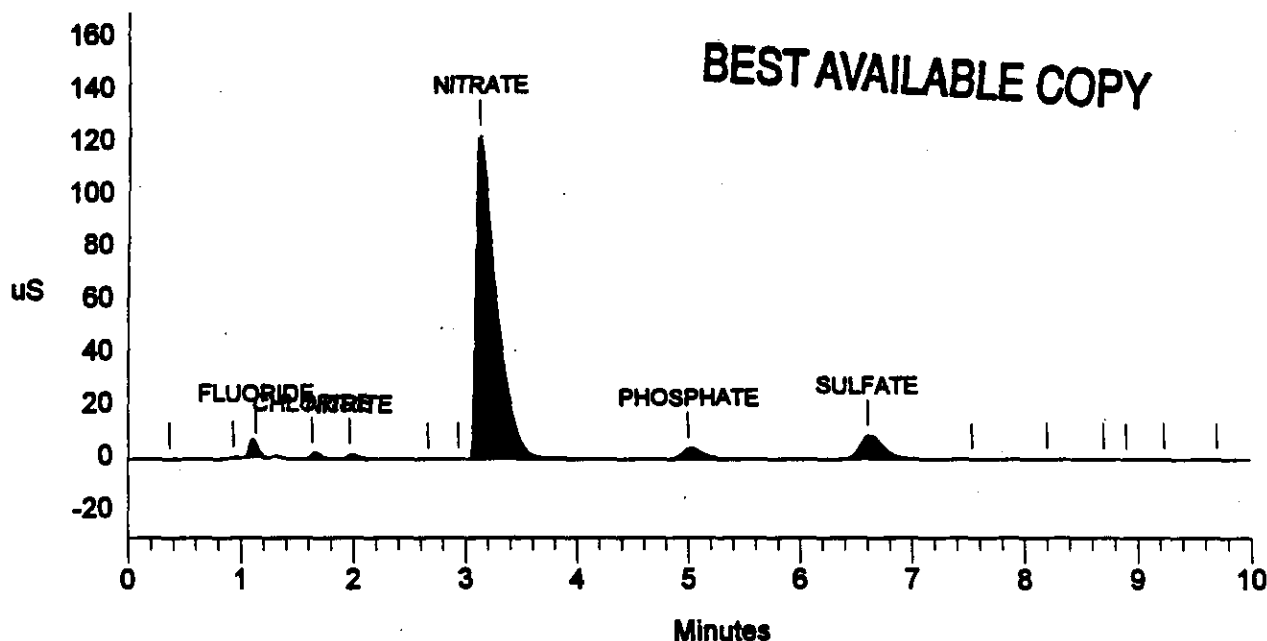
Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	259533	999500	1	
3	1.13	FLUORIDE	17.000	1000000	1000000	1	3.03
4	1.63	CHLORIDE	17.000	1000000	1000000	1	0.00
5	1.97	NITRITE	17.000	1000000	1000000	1	0.00
8	3.13	NITRATE	2171.706	123301137	1555144348	2	-4.08
9	5.00	PHOSPHATE	17.000	1000000	1000000	2	1.35
10	6.60	SULFATE	17.000	1000000	1000000	3	1.54
Totals			2930.312	145106295	1807598133		

File: 95100531.D13 Sample: S95T001826



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001826

Date: 10/05/1995 10:51:06

Data File : C:\DX\DATA\95100531.D12

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 12

Detector: CDM-2

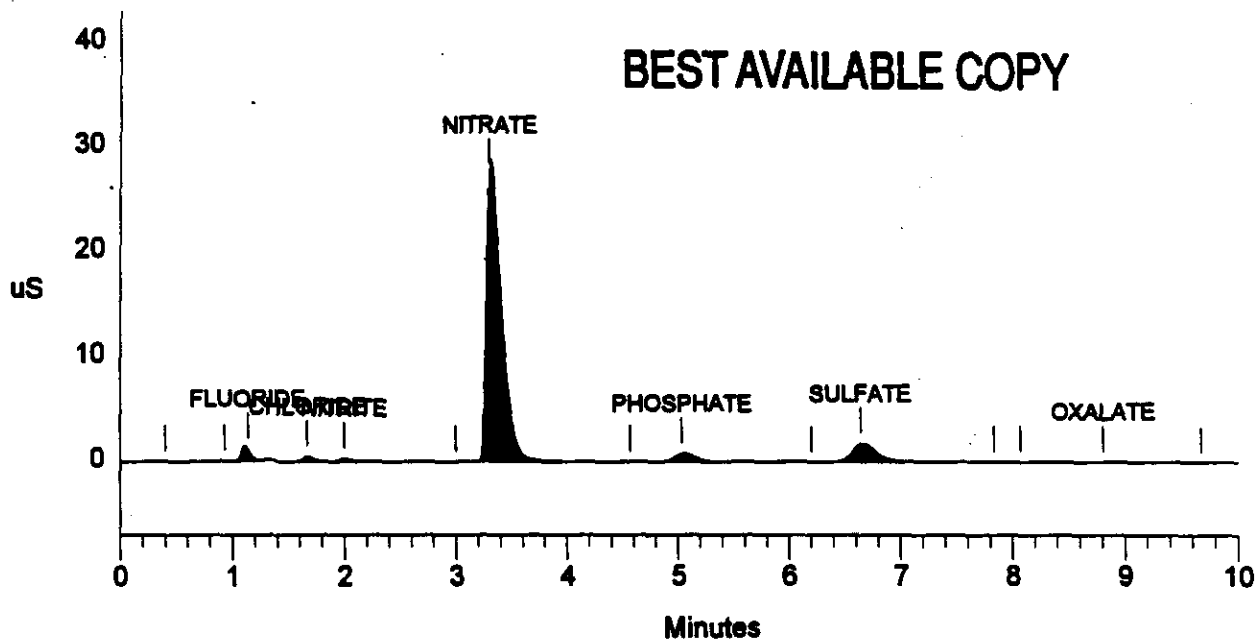
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	53.310	1151630	7775194	1	3.03
4	1.67	CHLORIDE	28.176	526550	2984064	1	2.04
5	2.00	NITRITE	36.313	335666	2067364	1	1.69
7	3.30	NITRATE	3000.000	1151630	7775194	3	1.02
9	5.03	PHOSPHATE	323.045	767085	10598185	2	2.03
11	6.63	SULFATE	319.268	1720868	27068337	2	2.05
14	8.80	OXALATE	7.598	15606	515814	2	3.13
Totals			4455.758	31831210	324274653		

File: 95100531.D12 Sample: S95T001826



WHC-SD-WM-DP-137, REV. 1

Date: 10/05/1995 11:20:26

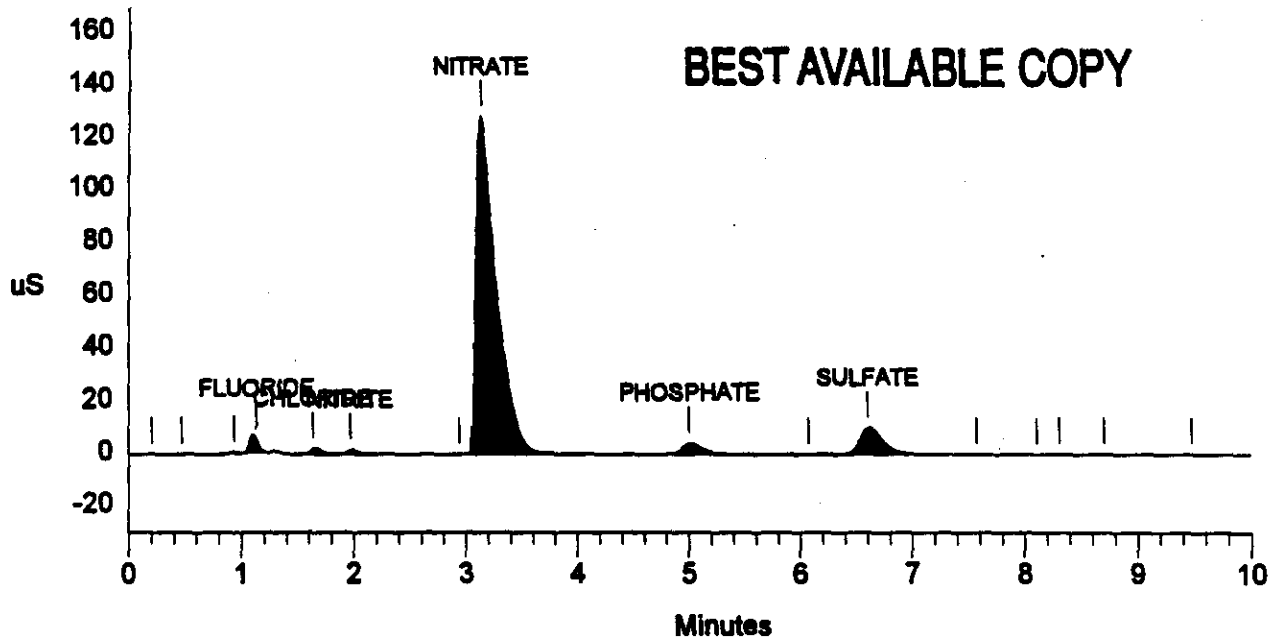
Detector: CDM-2

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	285400	1078360	1	
4	1.13	FLUORIDE				1	3.03
5	1.63	CHLORIDE				1	0.00
6	1.97	NITRITE				1	0.00
8	3.13	NITRATE	2145.360	128298778	1623411179	2	-4.08
9	5.00	PHOSPHATE				3	1.35
11	6.60	SULFATE				3	1.54

Totals	2927.842	151072148	1888053252
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File: 95100531.D14 Sample: S95T001826 DUP



WHC-SD-WM-DP-132, REV. 1

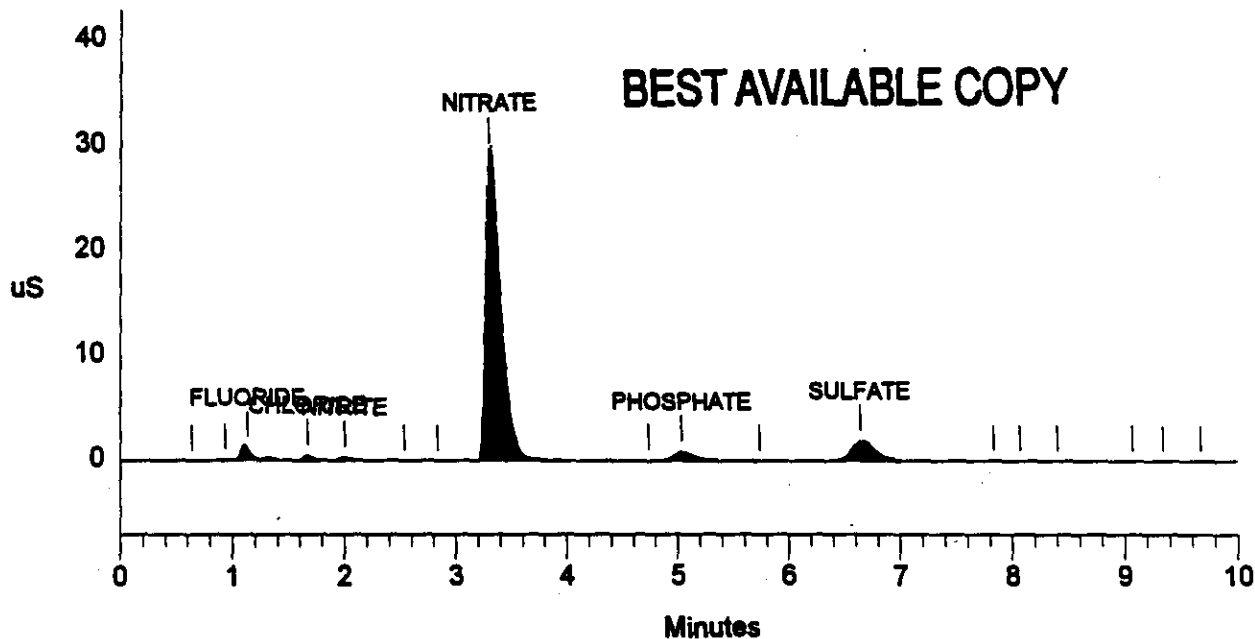
Sample Name: S95T001826 DUP Date: 10/05/1995 11:31:41
 Data File : C:\DX\DATA\95100531.D15
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 15 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 101 3000 5Hz 0.00 10.00 500000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	59.727	1125956	8705756	1	3.03
4	1.67	CHLORIDE	27.382	523989	2899826	1	2.04
5	2.00	NITRITE	36.095	334930	2049942	1	1.69
8	3.30	NITRATE	345.805	858055	11351944	3	2.03
10	5.03	PHOSPHATE	348.258	1874226	29593253	3	2.05
12	6.63	SULFATE					
Totals			4630.880	33953317	338345297		

File: 95100531.D15 Sample: S95T001826 DUP



WHC-SD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2666

Analyst: FHC Instrument: IC01 IC03 Book # 109A94

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests. JMF

WHC-SD-WM-DP-137, REV. 1

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				8IC-01 F-02	SOLID		2.863	N/A	ug/g
		1	BLNK-PREP				8IC-01 CL-02	SOLID		2.834	N/A	ug/g
		1	BLNK-PREP				8IC-01 NO2-02	SOLID		2.534	N/A	ug/g
		1	BLNK-PREP				8IC-01 BR-02	SOLID		2.150	N/A	ug/g
		1	BLNK-PREP				8IC-01 NO3-02	SOLID		2.609	N/A	ug/g
		1	BLNK-PREP				8IC-01 PO4-02	SOLID		2.596	N/A	ug/g
		1	BLNK-PREP				8IC-01 SO4-02	SOLID		2.678	N/A	ug/g
		1	BLNK-PREP				8IC-01 OXALATE2	SOLID		2.525	N/A	ug/g
		2	STD				8IC-01 F-02	SOLID	N/A	N/A	N/A	ug/g
		2	STD				8IC-01 CL-02	SOLID			N/A	ug/g
		2	STD				8IC-01 NO2-02	SOLID			N/A	ug/g
		2	STD				8IC-01 BR-02	SOLID			N/A	ug/g
		2	STD				8IC-01 NO3-02	SOLID			N/A	ug/g
		2	STD				8IC-01 PO4-02	SOLID			N/A	ug/g
		2	STD				8IC-01 SO4-02	SOLID			N/A	ug/g
		2	STD				8IC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3	SAMPLE	S95T001833	0	W	8IC-01 F-02	SOLID	N/A	1.1903	1.1402	ug/g
95000085	B-104	3	SAMPLE	S95T001833	0	W	8IC-01 CL-02	SOLID	N/A	2.2023	1.5102	ug/g

Data Entry Comments:

S95T001833

SAMPLE

11.6480

DUP

11.4700

S95T001847

12.1440

12.4280

There is a problem with integration of S95T001847 Dup CL and NO₃ peaks due to a baseline disturbance. This caused the poor RPDS. We will re-run Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

if requested by the project coordinator. JMF 10/12/95

LABCORE Data Entry Template for Worklist#

2666

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	NO2-02	SOLID	N/A	2.61e3	2.99e2 ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	BR-02	SOLID	N/A	2.70e2	2.70e2 ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	NO3-02	SOLID	N/A	2.74e5	6.66e3 ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	PO4-02	SOLID	N/A	2.31e4	1.07e3 ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	SO4-02	SOLID	N/A	2.06e4	1.22e3 ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	81C-01	OXALATE2	SOLID	N/A	2.947e2	9.47e2 ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	F-02	SOLID	1.19e3	1.47e3	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	CL-02	SOLID	2.20e3	2.14e3	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	NO2-02	SOLID	2.61e3	2.53e3	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	BR-02	SOLID	2.70e2	2.70e2	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	NO3-02	SOLID	2.74e5	2.67e5	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	PO4-02	SOLID	2.31e4	2.32e4	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	SO4-02	SOLID	2.06e4	2.06e4	N/A ug/g
95000085	B-104	4 DUP	S95T001833	0 W	81C-01	OXALATE2	SOLID	2.947e2	2.947e2	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	F-02	SOLID		84.9	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	CL-02	SOLID		101.5	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	NO2-02	SOLID		95.0	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	BR-02	SOLID		95.8	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	NO3-02	SOLID		101.1	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	PO4-02	SOLID		101.8	N/A ug/g
95000085	B-104	5 SPK	S95T001833	0 W	81C-01	SO4-02	SOLID		101.4	N/A ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2666

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	5 SPK	995T001833	0 W	BIC-01 OXALATE2	SOLID		114.1	N/A	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 F-02	SOLID	N/A	3.32e3	1.09e2	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 CL-02	SOLID	N/A	1.82e3	1.45e2	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 NO2-02	SOLID	N/A	1.83e3	1.58e2	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 BR-02	SOLID	N/A	2.59e2	2.59e2	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 NO3-02	SOLID	N/A	2.57e5	5.81e2	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 PO4-02	SOLID	N/A	2.45e4	1.02e3	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 SO4-02	SOLID	N/A	1.69e4	1.17e3	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	BIC-01 OXALATE2	SOLID	N/A	29.08e2	9.08e2	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 F-02	SOLID	3.32e3	2.89e3	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 CL-02	SOLID	1.82e3	2.05e3	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 NO2-02	SOLID	1.83e3	1.47e3	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 BR-02	SOLID	2.59e2	2.59e2	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 NO3-02	SOLID	2.57e5	2.16e5	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 PO4-02	SOLID	2.45e4	2.50e4	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 SO4-02	SOLID	1.69e4	1.75e4	N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	BIC-01 OXALATE2	SOLID	29.08e2	29.08e2	N/A	ug/g
		8 CCB			BIC-QC F-QC	QC		2.063	N/A	ug/ml
		8 CCB			BIC-QC CL-QC	QC		1.084	N/A	ug/ml
		8 CCB			BIC-QC NO2-QC	QC		1.534	N/A	ug/ml
		8 CCB			BIC-QC BR-QC	QC		1.150	N/A	ug/ml
		8 CCB			BIC-QC NO3-QC	QC		1.649	N/A	ug/ml

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2666

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		8 CCB			81C-QC PO4-QC	QC		6.596	N/A	ug/ml
		8 CCB			81C-QC SO4-QC	QC		6.678	N/A	ug/ml
		8 CCB			81C-QC OXALATQC	QC		6.525	N/A	ug/ml
		9 CCV			81C-QC F-QC	QC		63.9	N/A	ug/ml
		9 CCV			81C-QC CL-QC	QC		81.2	N/A	ug/ml
		9 CCV			81C-QC NO2-QC	QC		522.8	N/A	ug/ml
		9 CCV			81C-QC BR-QC	QC		559.2	N/A	ug/ml
		9 CCV			81C-QC NO3-QC	QC		599.7	N/A	ug/ml
		9 CCV			81C-QC PO4-QC	QC		558.3	N/A	ug/ml
		9 CCV			81C-QC SO4-QC	QC		621.5	N/A	ug/ml
		9 CCV			81C-QC OXALATQC	QC		549.3	N/A	ug/ml

Final page for worklist #

2666

Originally signed by Ed Colein 10/6/95
Analyst Signature/ Date
See attached
Edited by Jenni Lye 10/12/95

et al
Analyst Signature Date

Verified 10/17/95 Jenni Lye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2666

Analyst: EE Instrument: IC01 IC03 Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests. JMF Especially near Br.

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				81C-01 F-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 CL-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 NO2-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 BR-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 NO3-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 PO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 SO4-02	SOLID			N/A	ug/g
		1	BLNK-PREP				81C-01 OXALATE2	SOLID			N/A	ug/g
		2	STD				81C-01 F-02	SOLID			N/A	ug/g
		2	STD				81C-01 CL-02	SOLID			N/A	ug/g
		2	STD				81C-01 NO2-02	SOLID			N/A	ug/g
		2	STD				81C-01 BR-02	SOLID			N/A	ug/g
		2	STD				81C-01 NO3-02	SOLID			N/A	ug/g
		2	STD				81C-01 PO4-02	SOLID			N/A	ug/g
		2	STD				81C-01 SO4-02	SOLID			N/A	ug/g
		2	STD				81C-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	3	SAMPLE	S95T001833	0	W	81C-01 F-02	SOLID	N/A			ug/g
95000085	B-104	3	SAMPLE	S95T001833	0	W	81C-01 CL-02	SOLID	N/A			ug/g

Data Entry Comments:

S95T001833

SAMPLE

11.6480

DUP

11.4700

S95T001847

12.1440

12.4230

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2666

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 NO2-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 NO3-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 PO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 SO4-02	SOLID	N/A			ug/g
95000085	B-104	3 SAMPLE	S95T001833	0 W	BIC-01 OXALATE2	SOLID	N/A			ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 SO4-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001833	0 W	BIC-01 OXALATE2	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 CL-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 F-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 NO2-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 NO3-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 PO4-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001833	0 W	BIC-01 SO4-02	SOLID			N/A	ug/g

Data Entry Comments:

LMCS 109N9-A .100ml - 100ml

SPIKE 109N9-A .100ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2666

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
3000085	B-104	5 SPK	995T001833	0 W	81C-01	OXALATE2	SOLID		N/A	ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	F-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	CL-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	NO2-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	BR-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	NO3-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	PO4-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	SO4-02	SOLID	N/A		ug/g
95000088	B-104	6 SAMPLE	995T001847	0 W	81C-01	OXALATE2	SOLID	N/A		ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	F-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	CL-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	NO2-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	BR-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	NO3-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	PO4-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	SO4-02	SOLID		N/A	ug/g
95000088	B-104	7 DUP	995T001847	0 W	81C-01	OXALATE2	SOLID		N/A	ug/g

Final page for worklist #

2666

PM. Cal 10-6-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: 895T001833 & 895T001847

TEST CODE: @lc-01

INSTRUMENT: lc03

WORK LIST #: 2866

BATCH ID:

ANALYST: Ed Colvin

ANALYSIS DATE: 10/06/95

SAMPLE POINT: B-104

SAMPLE PREP: water digest

Result Units	mg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		108.3%	102.8%	98.1%	97.7%	102.3%	98.5%	97.3%	104.4%
895T001833		1.19E+03	2.20E+03	2.61E+03	2.74E+05	2.31E+04	2.06E+04	<270.43	<948.51
895T001833dup		1.47E+03	2.14E+03	2.63E+03	2.67E+05	2.32E+04	2.00E+04	<274.63	<961.20
Duplicate 1 RPD		21.1%	2.6%	3.3%	2.7%	0.1%	2.6%	N/A	N/A
895T001847		3.32E+03	1.82E+03	1.83E+03	2.57E+05	2.46E+04	1.69E+04	<259.39	1.57E+02
895T001847dup		2.89E+03	2.98E+03	1.47E+03	2.66E+05	2.50E+04	1.75E+04	<253.46	<887.11
Duplicate 2 RPD		14.0%	47.6%	21.7%	3.5%	2.0%	3.0%	N/A	N/A
895T001833spk		84.9%	101.5%	95.0%	101.1%	101.8%	101.4%	95.6%	114.1%

NARRATIVE:

Analyst Comments:

--

Chemist Comments:

--

Form Completed By:

James H. Foye

Date:

10/12/95

Chemist Approval:

James H. Foye

Date:

10/12/95

260

LAB LEADER INFO	
Labtech:	LA-433-168 D-1
Analyst:	ccld
Test Code:	G01-41
Work List #:	2906
Station #:	
Reagent Units	
Inspiry or InspmL:	1078
Bottle Stock Number:	16000A
Bottle Sample #: 1	
Prepared By:	Jean Pys
Prepared Date:	10/01/06
Chemical:	Jean Pys
Analytic:	Ed Carlin
Analyte Data:	1400006
Time Complete:	11:29 AM
Instrument Code:	1e03
Purge:	0
Sample Prep:	Vacuo Digest
Sample Point:	B-104
Sample Type	
STANDARD	16000A
SAMPLE 1	90STW1533
DUPPLICATE 1	90STW1533dup
SAMPLE 2	90STW1547
DUPPLICATE 2	90STW1547dup
SAMPLE 3	
DUPPLICATE 3	
SAMPLE 4	
DUPPLICATE 4	
SPICE	90STW1533Spic
SPICE DUPLICATE	

TECH INFO									
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Quinide	
Blank Data (ug/mL)	<.003	<.004	<.034	<.009	<.006	<.078	<.100	<.326	
Standard Data (ug/mL)	03.9	01.2	032.0	000.7	000.3	021.6	000.2	040.3	
Sample 1 Data (ug/mL)	1.300±01	2.000±01	3.000±01	3.100±03	2.700±02	2.000±02	<.100	<.326	
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21	
Sample 1 Prep DF	11,040	11,040	11,040	11,040	11,040	11,040	11,040	11,040	
Duplicate 1 Data (ug/mL)	1.000±01	2.000±01	2.000±01	3.000±03	2.000±02	2.300±02	<.100	<.326	
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21	
Duplicate 1 Prep DF	11,47	11,47	11,47	11,47	11,47	11,47	11,47	11,47	
Sample 2 Data (ug/mL)	4.000±01	2.210±01	2.320±01	3.120±03	2.000±02	2.000±02	<.100	1.000±00	
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21	
Sample 2 Prep DF	12,140	12,140	12,140	12,140	12,140	12,140	12,140	12,140	
Duplicate 2 Data (ug/mL)	3.000±01	3.070±01	1.000±01	3.300±03	3.110±02	2.170±02	<.100	<.326	
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21	
Duplicate 2 Prep DF	12,430	12,430	12,430	12,430	12,430	12,430	12,430	12,430	
Sample 3 Data (ug/mL)									
Sample 3 Dilution Factor									
Sample 3 Prep DF									
Duplicate 3 Data (ug/mL)									
Duplicate 3 Dilution Factor									
Duplicate 3 Prep DF									
Sample 4 Data (ug/mL)									
Sample 4 Dilution Factor									
Sample 4 Prep DF									
Duplicate 4 Data (ug/mL)									
Duplicate 4 Dilution Factor									
Duplicate 4 Prep DF									
Blank + Sample 1 (ug/mL)	2.300±01	4.100±01	1.320±02	3.020±03	3.010±02	3.000±02	1.100±02	1.200±01	



Bottle Volume (mL)	1,000-01	1,000-01	1,000-01	1,000-01	1,000-01	1,000-01
Total Volume (mL)	98.80	10.00	10.10	10.00	10.00	10.00
Std. Conc. (mg/mL)	80	70	633	646	631	626
Detection Limit	0.003	0.004	0.000	0.000	0.078	0.535
Metric Detection Limit 1	1.44E+02	1.51E+02	9.99E+02	1.97E+03	1.22E+03	9.47E+02
Spike Detection Limit 2	1,000+02	1,000+02	9,99E+02	1,63E+03	1,17E+03	9,00E+02
Metric Detection Limit 3	EPR	EPR	EPR	EPR	EPR	EPR
Metric Detection Limit 4	EPR	EPR	EPR	EPR	EPR	EPR

[illegible]

v PEGMA-TB-V									
	Fluoride	Chloride	Nitrate	Phosphate	Sulfate	Bromide	Chloride	Bromide	Chloride
Standard % Recovery	103.3%	102.3%	98.1%	97.3%	94.3%	97.3%	104.3%	97.3%	104.3%
Sample 1 in 1979	1.10E+03	2.30E+03	2.61E+03	2.70E+03	2.80E+03	<2.7E+03	<2.6E+03	<2.7E+03	<2.6E+03
Sample 1 in 1978	1.27E+03	2.74E+03	2.53E+03	2.67E+03	2.66E+03	<2.7E+03	<2.7E+03	<2.7E+03	<2.6E+03
Sample 1 in 1974	2.17E+03	2.78E+03	2.57E+03	2.72E+03	2.64E+03	N/A	N/A	N/A	N/A
Sample 1 in 1970	2.17E+03	2.78E+03	2.57E+03	2.72E+03	2.64E+03	<2.6E+03	<2.6E+03	<2.6E+03	<2.6E+03
Sample 1 in 1979	1.33E+03	1.33E+03	1.33E+03	2.05E+03	1.88E+03	<2.6E+03	1.37E+03	<2.6E+03	1.37E+03
Sample 1 in 1978	1.33E+03	1.33E+03	1.33E+03	2.05E+03	1.88E+03	<2.6E+03	1.37E+03	<2.6E+03	1.37E+03
Sample 1 in 1974	2.00E+03	2.00E+03	2.00E+03	2.00E+03	1.70E+03	<2.6E+03	1.70E+03	<2.6E+03	1.70E+03
Sample 1 in 1970	1.40E+03	1.40E+03	1.40E+03	2.00E+03	1.70E+03	N/A	N/A	N/A	N/A
Sample 2 in 1979	103.3%	102.3%	98.1%	97.3%	94.3%	97.3%	104.3%	97.3%	104.3%
Sample 2 in 1978	1.10E+03	2.30E+03	2.61E+03	2.70E+03	2.80E+03	<2.7E+03	<2.6E+03	<2.7E+03	<2.6E+03
Sample 2 in 1974	1.27E+03	2.74E+03	2.53E+03	2.67E+03	2.66E+03	<2.7E+03	<2.7E+03	<2.7E+03	<2.6E+03
Sample 2 in 1970	2.17E+03	2.78E+03	2.57E+03	2.72E+03	2.64E+03	N/A	N/A	N/A	N/A
Sample 2 in 1979	1.33E+03	1.33E+03	1.33E+03	2.05E+03	1.88E+03	<2.6E+03	1.37E+03	<2.6E+03	1.37E+03
Sample 2 in 1978	1.33E+03	1.33E+03	1.33E+03	2.05E+03	1.88E+03	<2.6E+03	1.37E+03	<2.6E+03	1.37E+03
Sample 2 in 1974	2.00E+03	2.00E+03	2.00E+03	2.00E+03	1.70E+03	<2.6E+03	1.70E+03	<2.6E+03	1.70E+03
Sample 2 in 1970	1.40E+03	1.40E+03	1.40E+03	2.00E+03	1.70E+03	N/A	N/A	N/A	N/A
Sample % Recovery	94.3%	101.3%	94.0%	101.1%	101.0%	101.0%	114.1%	94.3%	114.1%

Date Entry by: <i>David Fuge</i> Approved by: <i>David Fuge</i> Date: 10/12/95	Date: 10/12/95
--	----------------

Sample Name: 109N9-A STD
 Data File : C:\DX\DATA\95100631.D03
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 3
 Analyst : Ed Colvin Column:

Date: 10/06/1995 07:27:42

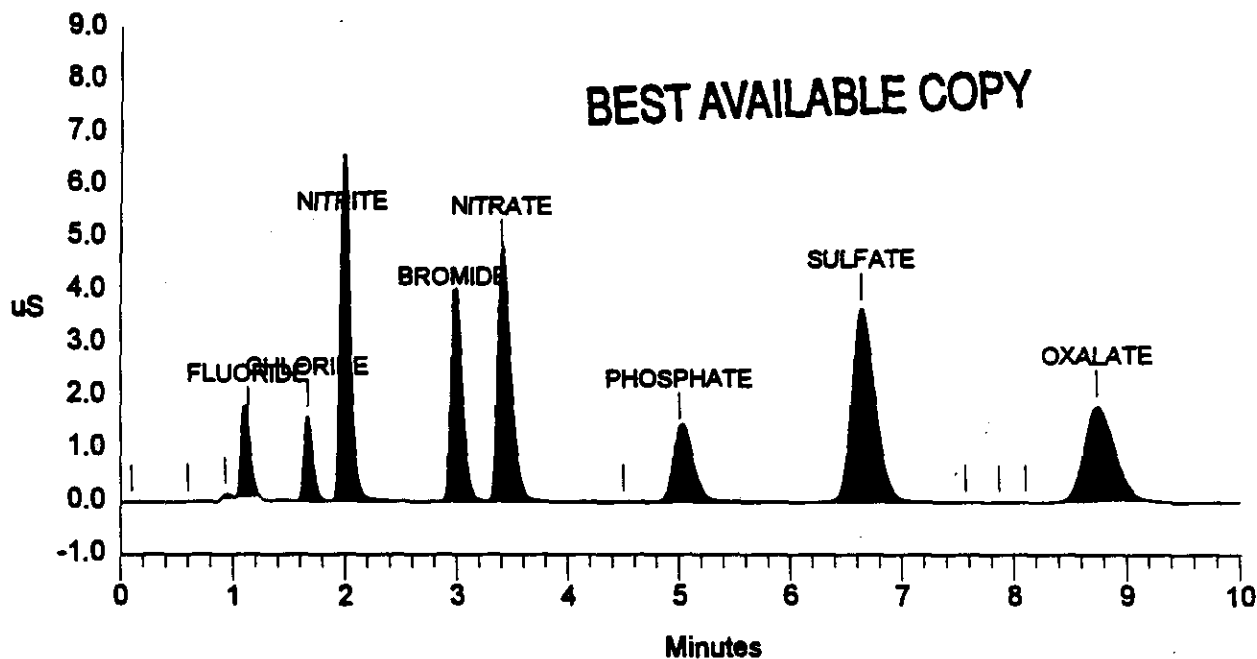
Detector: CDM-2

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 101 3000 5Hz 0.00 10.00 500000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	63.967	1359646	9322800	1	3.03
5	1.67	CHLORIDE	81.264	1578387	8671986	1	2.04
6	1.97	NITRITE	522.816	4707276	41181936	1	0.00
7	2.97	BROMIDE	559.293	3300823	28707607	2	2.30
8	3.40	NITRATE	599.784	4632135	40481658	2	4.08
10	5.00	PHOSPHATE	558.390	1360325	18439280	2	1.35
11	6.63	SULFATE	621.589	3630379	53589491	3	2.05
15	8.73	OXALATE	549.331	1770358	32573054	2	2.34
Totals			3556.434	22339328	232967811		

File: 95100631.D03 Sample: 109N9-A STD



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 262 TO 276.

WHC-SD-WM-DP-137, REV. 1

Sample Name: PREP BLANK
 Data File : C:\DX\DATA\95100631.D02
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 2
 Analyst : Ed Colvin Column:

Date: 10/06/1995 07:16:23

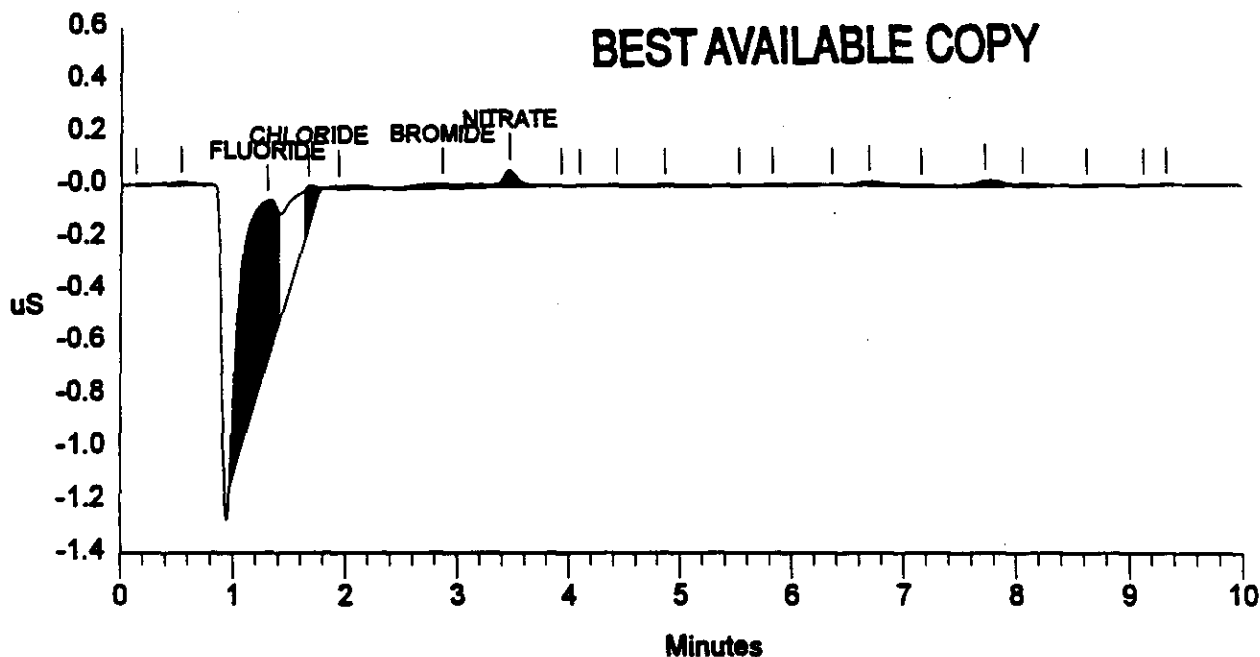
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.30	FLUORIDE	1.053	615223	15606481	2	18.18
4	1.67	CHLORIDE	0.074	152976	790673	2	2.04
6	2.87	BROMIDE	0.175	14698	552791	2	-1.15
7	3.47	NITRATE	0.135	65014	624967	2	6.12
Totals			1.438	847911	17574911		

File: 95100631.D02 Sample: PREP BLANK



WHC-SD-WM-DP-37, REV. 1

Sample Name: INSTR BLANK

Date: 10/06/1995 07:03:16

Data File : C:\DX\DATA\95100631.D01

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 1

Detector: CDM-2

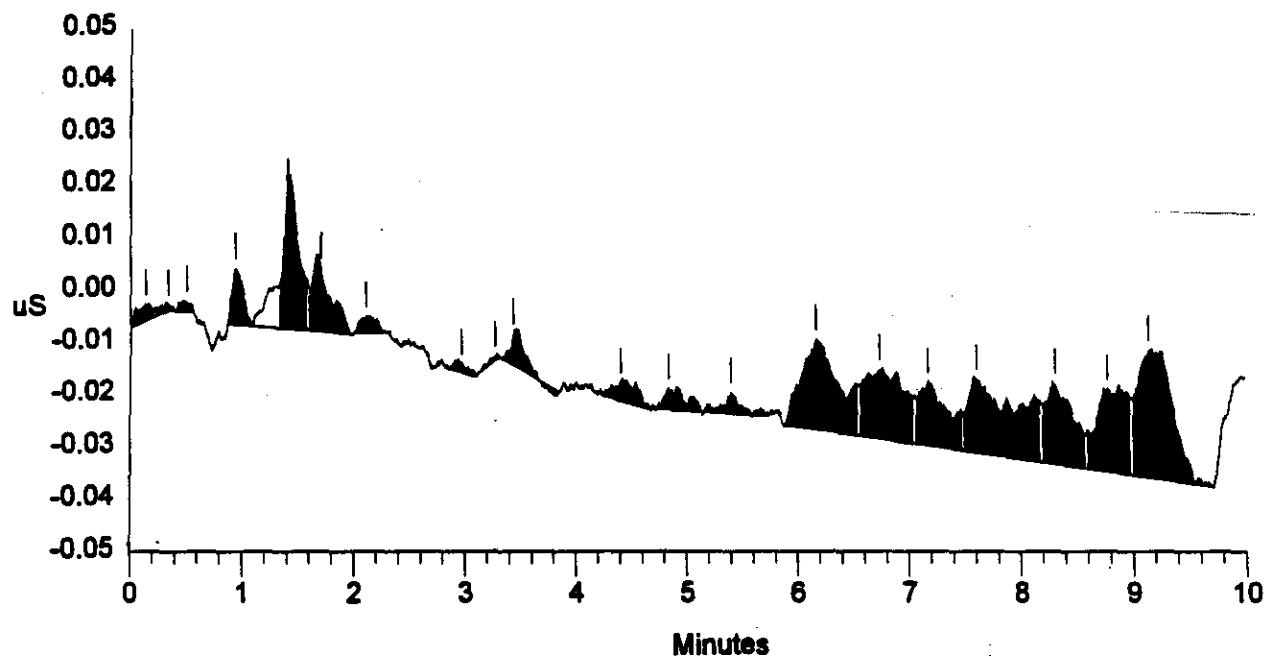
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
20	9.13		0.000	24229	528400	2	
Totals			0.000	24229	528400		

File: 95100631.D01 Sample: INSTR BLANK



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001833

Date: 10/06/1995 07:42:00

Data File : C:\DX\DATA\95100631.D04

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 4

Detector: CDM-2

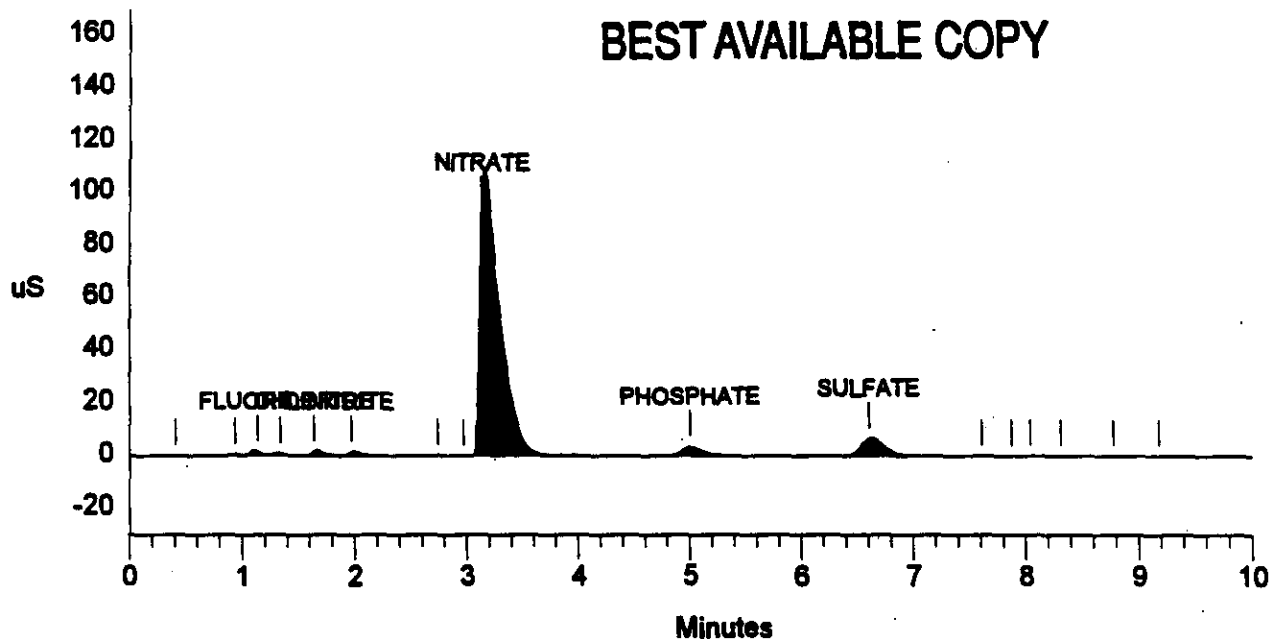
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	225267	841800	1	
3	1.13	FLUORIDE	0.000	225267	841800	1	3.03
4	1.33		0.000	781440	4634720	1	
5	1.63	CHLORIDE	25.615	1030113	1030113	1	0.00
6	1.97	NITRITE	30.441	1271078	1030113	1	0.00
9	3.13	NITRATE	2187.276	92725302	1336745709	2	-4.08
10	5.00	PHOSPHATE	0.000	0.000	0.000	2	1.35
11	6.60	SULFATE	0.000	0.000	0.000	3	1.54
Totals			2766.910	108402075	1521268616		

File: 95100631.D04 Sample: S95T001833



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001833

Date: 10/06/1995 07:52:49

Data File : C:\DX\DATA\95100631.D05

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 5

Detector: CDM-2

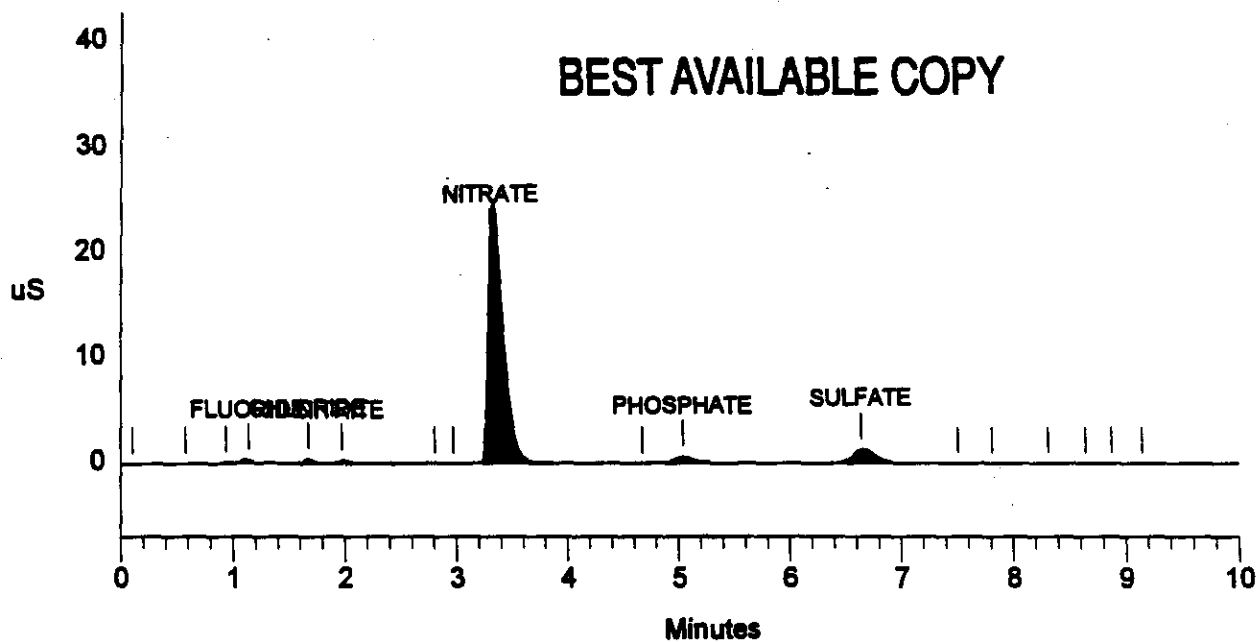
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	12.421	290734	1945204	1	3.03
5	1.67	CHLORIDE	25.025	472233	2649838	1	2.04
6	1.97	NITRITE	36.393	267817	2073690	1	0.00
9	3.30	NITRATE	274.946	641777	9008451	3	1.02
11	5.03	PHOSPHATE	274.946	641777	9008451	2	2.03
12	6.63	SULFATE	244.839	1347477	20603406	2	2.05
Totals			3788.600	23816805	269296480		

File: 95100631.D05 Sample: S95T001833



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001833 DUP
 Data File : C:\DX\DATA\95100631.D07
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 7
 Analyst : Ed Colvin Column:

Date: 10/06/1995 08:15:57

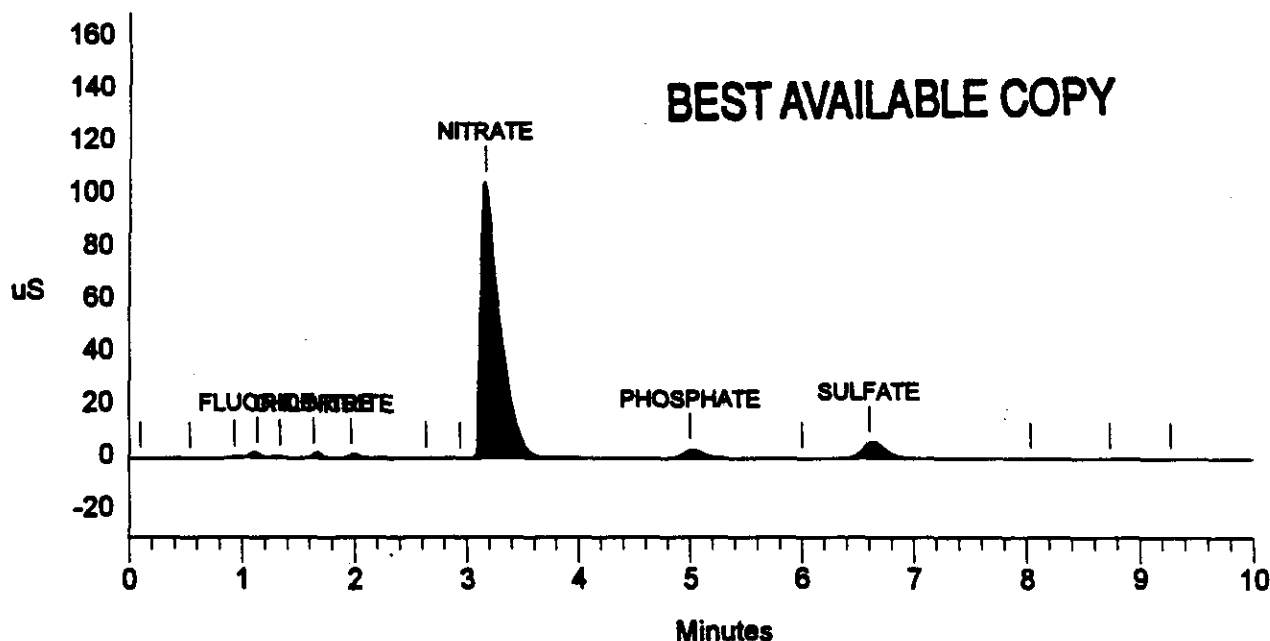
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	209067	774540	1	
4	1.13	FLUORIDE				1	3.03
5	1.33					1	
6	1.63	CHLORIDE				1	0.00
7	1.97	NITRITE				1	0.00
10	3.17	NITRATE	2170.914	105086851	1269267768	2	-3.06
11	5.00	PHOSPHATE				3	1.35
13	6.60	SULFATE				2	1.54
Totals			2737.007	120458954	1448955864		

File: 95100631.D07 Sample: S95T001833 DUP



WHC-SD-WM-DP-137, REV.1

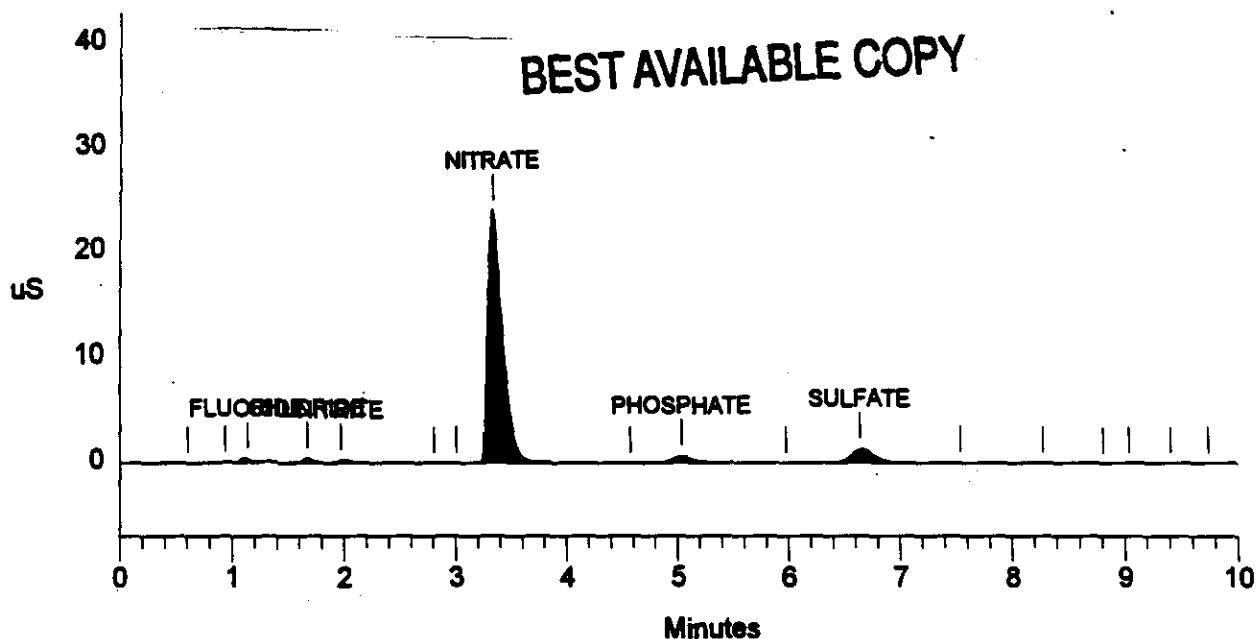
Sample Name: S95T001833 DUP Date: 10/06/1995 08:03:42
 Data File : C:\DX\DATA\95100631.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 6 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	16.088	369830	2461218	1	3.03
4	1.67	CHLORIDE	24.052	457949	2546701	2	2.04
5	1.97	NITRITE	34.914	252339	1955586	2	0.00
8	3.33	NITRATE	250.574	640486	8204527	3	2.04
10	5.03	PHOSPHATE	250.574	640486	8204527	3	2.03
12	6.63	SULFATE	237.459	1303776	19963734	3	2.05
Totals			3625.708	26997933	257575125		

File: 95100631.D06 Sample: S95T001833 DUP



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001847

Date: 10/06/1995 09:01:58

Data File : C:\DX\DATA\95100631.D11

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 11

Detector: CDM-2

Analyst : Ed Colvin

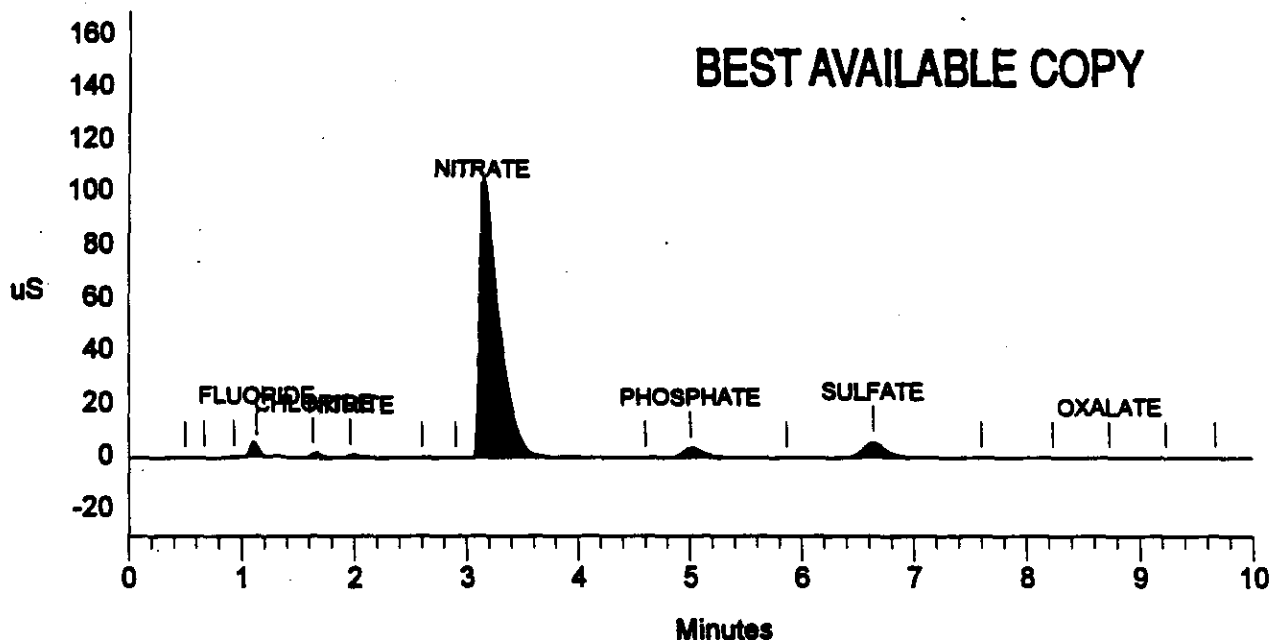
Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	226467	864600	1	
4	1.13	FLUORIDE				1	3.03
5	1.63	CHLORIDE				1	0.00
6	1.97	NITRITE				1	0.00
9	3.13	NITRATE	2174.670	90160575	1281666653	3	-4.08
11	5.00	PHOSPHATE				3	1.35
12	5.87		0.000	22672	527720	4	
13	6.63	SULFATE				3	2.05
14	7.60		0.000	19603	535621	4	
16	8.73	OXALATE				2	2.34
Totals			2764.796	106697325	1467545971		

File: 95100631.D11 Sample: S95T001847



WHC-SD-WM-DP-137, REV. 1

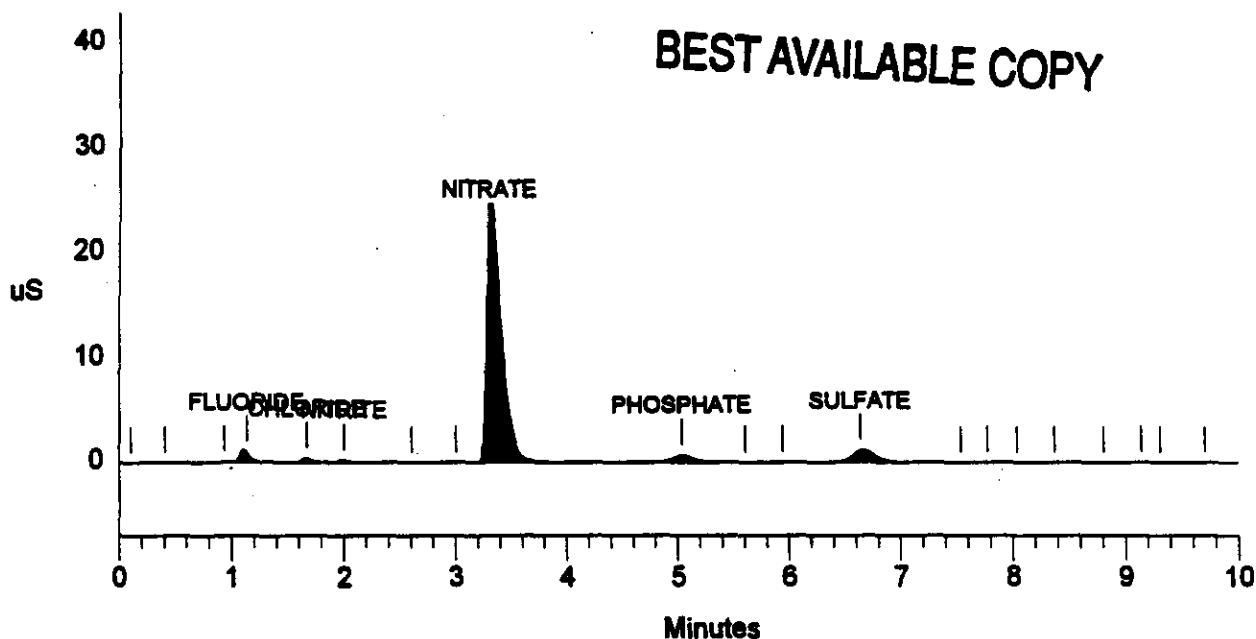
Sample Name: S95T001847 Date: 10/06/1995 08:49:00
 Data File : C:\DX\DATA\95100631.D10
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 10 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	44.802	908586	6548256	1	3.03
5	1.67	CHLORIDE	22.244	416760	2355182	1	2.04
6	2.00	NITRITE	28.368	232410	1432834	1	1.69
9	3.30	NITRATE	3117.78	908586	6548256	2	1.02
10	5.03	PHOSPHATE	288.576	720032	9458484	3	2.03
13	6.63	SULFATE	215.616	1153391	18071912	2	2.05
Totals			3716.971	24670529	264671599		

File: 95100631.D10 Sample: S95T001847



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001847 DUP

Date: 10/06/1995 10:27:15

Data File : C:\DX\DATA\95100631.D13

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 13

Detector: CDM-2

Analyst : Ed Colvin Column:

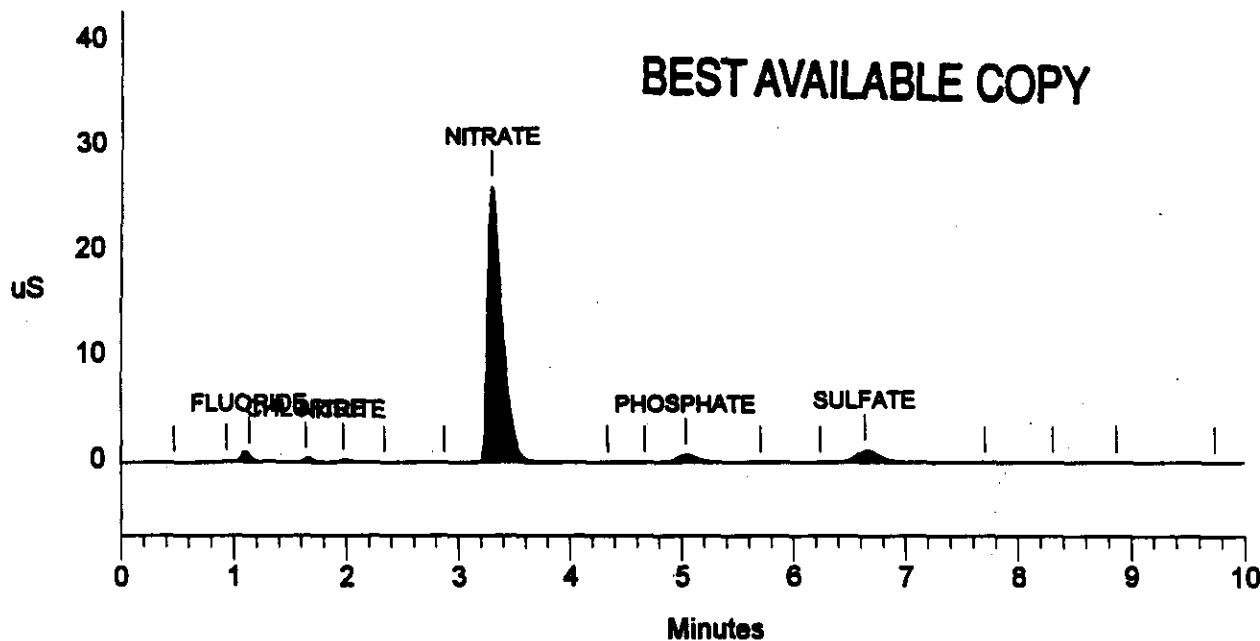
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 500000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	34.984	744875	5141482	1	3.03
4	1.63	CHLORIDE	23.116	326345	2447566	1	0.00
5	1.97	NITRITE	29.231	228945	1501786	1	0.00
8	3.30	NITRATE	278.001	733393	9109270	3	1.02
11	5.03	PHOSPHATE	278.001	733393	9109270	3	2.03
14	6.63	SULFATE	213.761	1155478	17911347	2	2.05
Totals			3883.026	29264360	277902638		

File: 95100631.D13 Sample: S95T001847 DUP



WHC-SD-WM-DP-137, REV. 1

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Sample Name: S95T001833 + SPIKE                      Date: 10/06/1995 08:26:53
Data File  : C:\DX\DATA\95100631.D08
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 8                    Detector: CDM-2
Analyst    : Ed Colvin                               Column:
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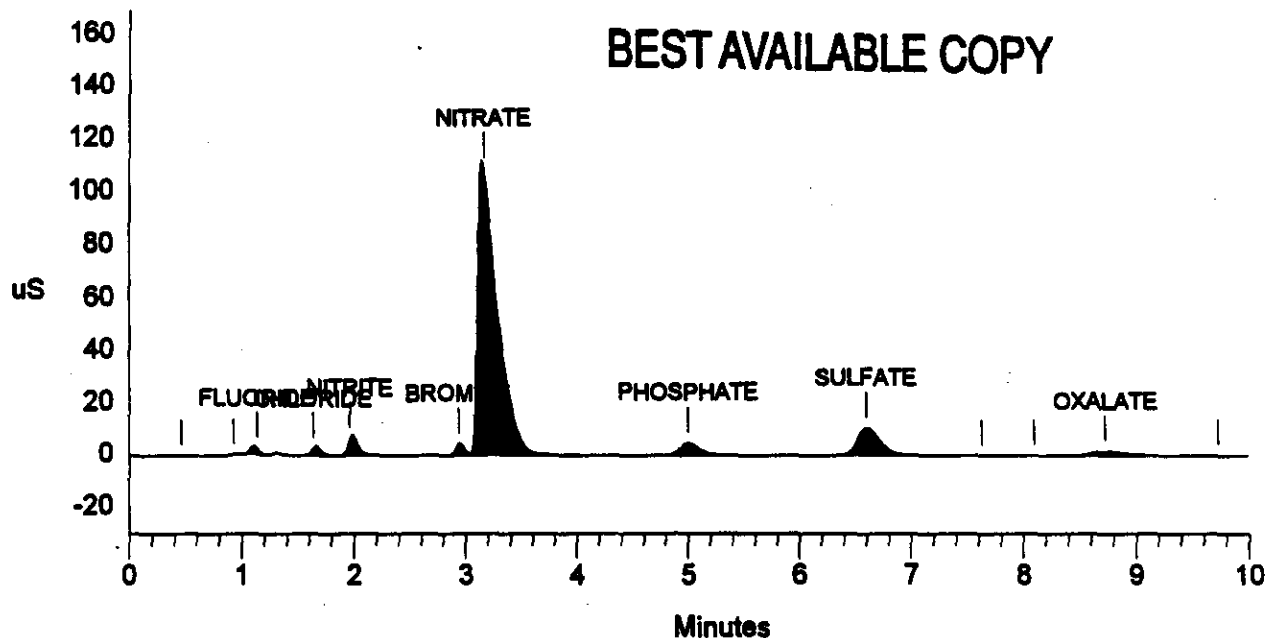
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00   500000
-----

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***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	265867	1012120	1	
3	1.13	FLUORIDE	2421860	2421860	1012120	1	3.03
4	1.63	CHLORIDE	1012120	1012120	1012120	1	0.00
5	1.97	NITRITE	1012120	1012120	1012120	1	0.00
6	2.93	BROMIDE	1012120	1012120	1012120	2	1.15
7	3.17	NITRATE	2192.197	109297677	1376015333	2	-3.06
8	5.00	PHOSPHATE	1012120	1012120	1012120	2	1.35
9	6.60	SULFATE	1012120	1012120	1012120	3	1.54
12	8.73	OXALATE	1012120	1012120	1012120	2	2.34
Totals			3368.509	143792866	1748684346		

File: 95100631.D08 Sample: S95T001833 + SPIKE



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001833 + SPIKE
 Data File : C:\DX\DATA\95100631.D09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9
 Analyst : Ed Colvin Column:

Date: 10/06/1995 08:37:50

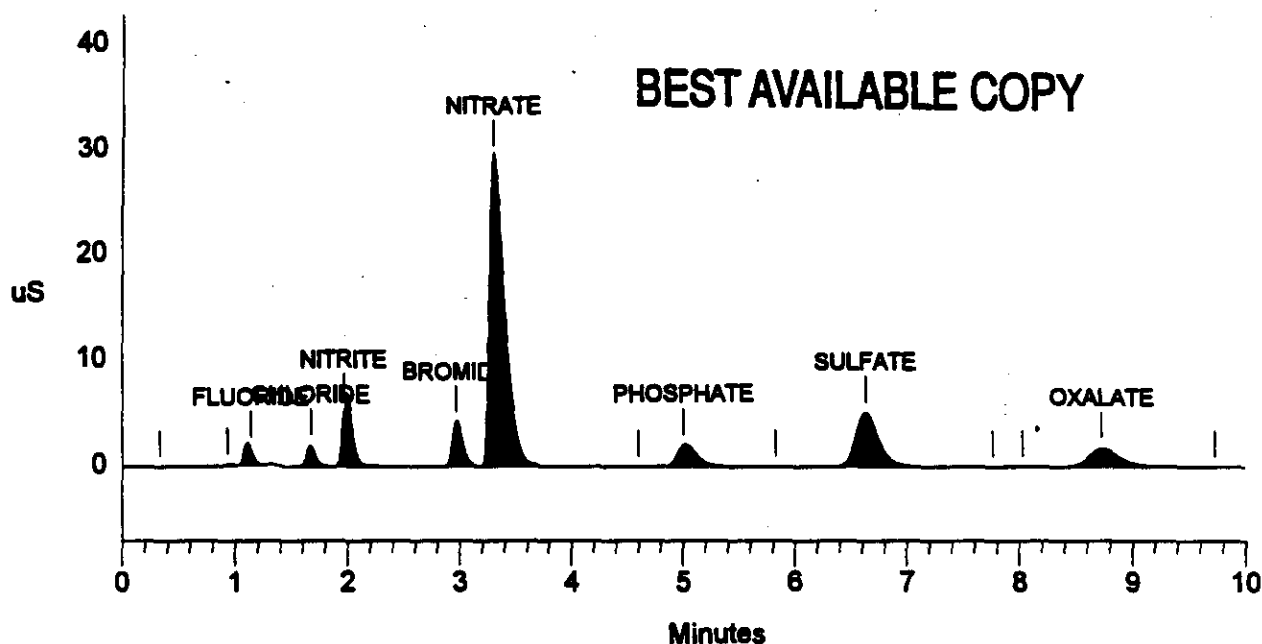
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	76.155	1629564	11107720	1	3.03
4	1.67	CHLORIDE	107.296	2043530	11502202	1	2.04
5	1.97	NITRITE	535.319	5337059	42194130	1	0.00
6	2.97	BROMIDE	560.175	4177420	28754198	2	2.30
7	3.30	NITRATE	821.279	2076449	27324847	3	1.02
9	5.00	PHOSPHATE	821.279	2076449	27324847	3	1.35
11	6.63	SULFATE	864.526	5154489	75215570	2	2.05
14	8.73	OXALATE	590.127	1789500	35009697	3	2.34
Totals			7370.081	51739255	514986558		

File: 95100631.D09 Sample: S95T001833 + SPIKE



WHC-SD-WM-DP-132, REV. 1

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Sample Name: S95T001847 DUP

Date: 10/06/1995 10:15:02

Data File : C:\DX\DATA\95100631.D12

Method : C:\DX\METHOD\ANIONS.MET

\CI Address: 1 System: 2 Inject#: 12

Detector: CDM-2

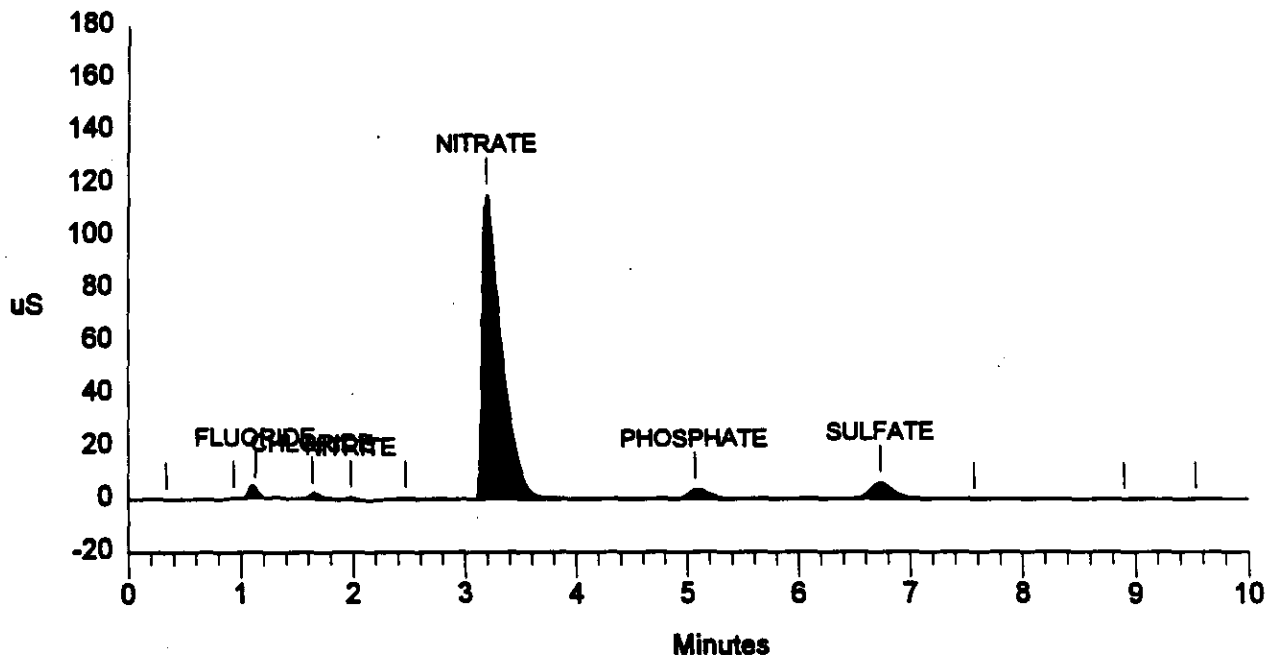
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	226000	851220	1	
3	1.13	FLUORIDE	05.076	3717127	2500071	1	3.03
4	1.63	CHLORIDE	30.723	1588504	15101525	2	0.00
5	1.80	NITRATE	10.523	1030400	6210531	2	0.51
6	2.47		0.000	199359	3954092	2	
7	3.20	NITRATE	2193.687	115682423	1406757566	2	-2.04
8	5.07	PHOSPHATE	210.004	3010712	50700760	2	2.70
9	6.83	SULFATE	210.934	6250301	01220420	3	3.59
10	7.57		0.000	37162	1188857	4	
Totals			2812.439	132803197	1606062118		

File: 95100631.D12 Sample: S95T001847 DUP



WHC-SD-WM-DP-137, REV. 1

27.1

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Sample Name: S95T001847 DUP                      Date: 10/06/1995 10:15:02
Data File  : C:\DX\DATA\95100631.D12
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 12              Detector: CDM-2
Analyst    : Ed Colvin      Column:
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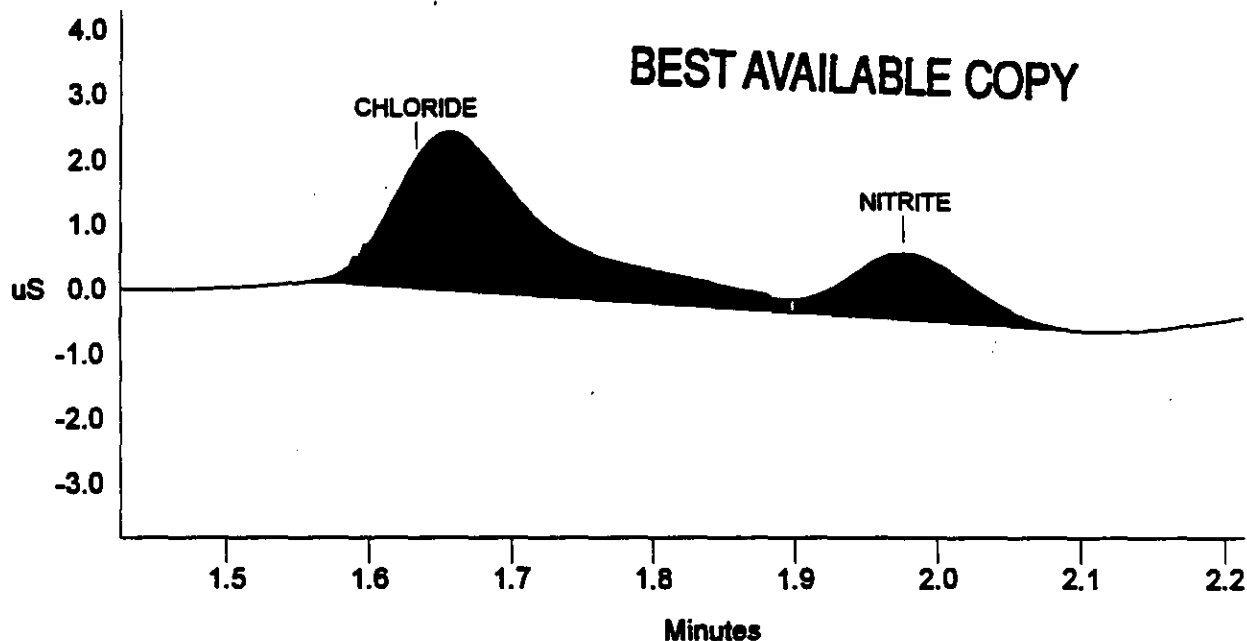
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   1.43   2.21    500000
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***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	226000	851220	1	
3	1.13	FLUORIDE	35.876	3717427	25838740	1	3.03
4	1.63	CHLORIDE	36.729	1988964	19181929	2	0.00
5	1.98	NITRITE	18.329	1032428	6210531	2	0.51
6	2.47		0.000	199359	3954092	2	
7	3.20	NITRATE	2193.687	115682423	1406757566	2	-2.04
8	5.07	PHOSPHATE	310.884	3640712	50758762	2	2.70
9	6.73	SULFATE	216.934	6278721	91320420	3	3.59
10	7.57		0.000	37162	1188857	4	
Totals			2812.439	132803197	1606062118		

File: 95100631.D12 Sample: S95T001847 DUP



WHC-SD-WM-DP-132, REV. 1

Sample Name: S95T001847 DUP
 Data File : C:\DX\DATA\95100631.D12
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 12
 Analyst : Ed Colvin Column:

Date: 10/06/1995 10:15:02

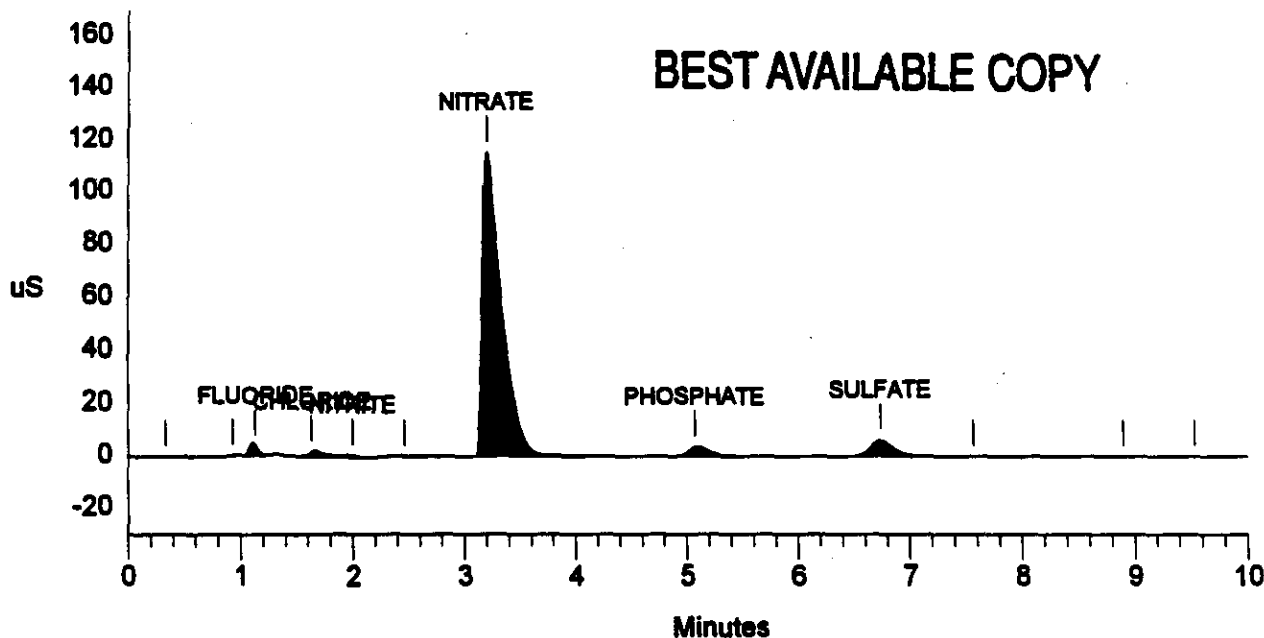
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	226000	851220	1	
3	1.13	FLUORIDE	95.878	25822740	25822740	1	3.03
4	1.63	CHLORIDE	10.124	2314269	2314269	2	0.00
5	2.00	NITRITE	0.624	251652	4732561	2	1.69
6	2.47		0.000	199359	3954113	2	
7	3.20	NITRATE	2193.687	115682423	1406752702	2	-2.04
8	5.07	PHOSPHATE	0.000	22500000	22500000	2	2.70
9	6.73	SULFATE	0.000	10000000	2990095	3	3.59
10	7.57		0.000	171821	1207162	4	
Totals			2819.148	132914072	1609516038		

File: 95100631.D12 Sample: S95T001847 DUP



WHC-SD-WM-DP-137, REV. 1

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LABCORE Data Entry Template for Worklist#

2700

Analyst: EHC Instrument: IC01 IC01 Book # 109N97

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: Rerun for Br only. Their actionlimit is 1200 ppm. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			01C-01 F-02	SOLID	<u>N/A</u>	<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 CL-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 NO2-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 BR-02	SOLID		<u>5.150</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 NO3-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 PO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 SO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			01C-01 OXALATE2	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 F-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 CL-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 NO2-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 BR-02	SOLID		<u>5828</u> <u>NA</u>	<u>101895</u> <u>N/A</u>	ug/g
		2 STD			01C-01 NO3-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 PO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 SO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			01C-01 OXALATE2	SOLID	<u>V</u>	<u>NA</u>	<u>N/A</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	01C-01 BR-02	SOLID	<u>N/A</u>	<u>5.0502</u>	<u>3.0802</u>	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	01C-01 F-02	SOLID	<u>N/A</u>	<u>NA</u>	<u>N/A</u>	ug/g

Data Entry Comments:

The spike recovery for Br was poor due to interference with
Br from the large NO₃ peak. JMF 10/12/95

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

276,1

LABCORE Data Entry Template for Worklist#

2700

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	CL-02	SOLID	N/A	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	NO2-02	SOLID	N/A	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	BR-02	SOLID	5.05e2	4.98e2	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	NO3-02	SOLID	N/A	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	F-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	BR-02	SOLID		71.2	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	NO3-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	PO4-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	SO4-02	SOLID		N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01	OXALATE2	SOLID		N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01	BR-02	SOLID	N/A	3.10e2	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	F-02	SOLID	N/A	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	CL-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	NO2-02	SOLID		N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	BR-02	SOLID	3.10e2	3.10e2	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01	NO3-02	SOLID	N/A	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

276.2

LABCORE Data Entry Template for Worklist#

2700

UP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
0000085	B-104	7 DUP	S95T001832	0 W	QIC-01 PO4-02	SOLID	N/A	N/A	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 SO4-02	SOLID		N/A	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 OXALATE2	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 F-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 CL-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 NO2-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 BR-02	SOLID		<0.150	N/A	ug/g
		8 CCB			QIC-01 NO3-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 PO4-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 SO4-02	SOLID		N/A	N/A	ug/g
		8 CCB			QIC-01 OXALATE2	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 F-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 CL-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 NO2-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 BR-02	SOLID		582.8	N/A	ug/g
		9 CCV			QIC-01 NO3-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 PO4-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 SO4-02	SOLID		N/A	N/A	ug/g
		9 CCV			QIC-01 OXALATE2	SOLID	✓	N/A	N/A	ug/g

Final page for worklist #

2700

Originally signed by Ed Colvin 10/6/95
Edited by Jan & Sue 10/9/95

[Signature] 10-17-95

Data Entry Comments:

Verified 10/17/95 Jan & Sue

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

276.3

LABCORE Data Entry Template for Worklist#

2700

Analyst: EE Instrument: IC01 IC01 Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: Rerun for Br only. Their actionlimit is 1200 ppm. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			QIC-01 F-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 CL-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 NO2-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 BR-02	SOLID			<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 NO3-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 PO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 SO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP			QIC-01 OXALATE2	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 F-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 CL-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 NO2-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 BR-02	SOLID			<u>N/A</u>	ug/g
		2 STD			QIC-01 NO3-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 PO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 SO4-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
		2 STD			QIC-01 OXALATE2	SOLID		<u>NA</u>	<u>N/A</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001831	0 W	QIC-01 BR-02	SOLID	<u>N/A</u>			ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 F-02	SOLID		<u>NA</u>	<u>N/A</u>	ug/g

Data Entry Comments:

SAMPLE

DUP

S95T001831

10.2400 g/L

10.3400 g/L

S95T001832

10.1700 g/L

10.2810 g/L

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

276.4

LABCORE Data Entry Template for Worklist#

2700

JUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 CL-02	SOLID		NA	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 NO2-02	SOLID		NA	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 NO3-02	SOLID		NA	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 PO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 SO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	4 DUP	S95T001831	0 W	QIC-01 OXALATE2	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 CL-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 F-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 NO2-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 NO3-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 PO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 SO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	5 SPK	S95T001831	0 W	QIC-01 OXALATE2	SOLID		NA	N/A	ug/g
95000085	B-104	6 SAMPLE	S95T001832	0 W	QIC-01 BR-02	SOLID	N/A			ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 F-02	SOLID		NA	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 CL-02	SOLID		NA	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 NO2-02	SOLID		NA	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 BR-02	SOLID			N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	QIC-01 NO3-02	SOLID		NA	N/A	ug/g

Data Entry Comments:

LMCS 109N9-A .100mL - 10mL

SPIKE 109N9-A .100mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

276.5

LABCORE Data Entry Template for Worklist#

2700

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	7 DUP	S95T001832	0 W	@IC-01 PO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	@IC-01 SO4-02	SOLID		NA	N/A	ug/g
95000085	B-104	7 DUP	S95T001832	0 W	@IC-01 OXALATE2	SOLID		NA	N/A	ug/g

Final page for worklist #

2700

E.H. Cahn 10-6-95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

276.6

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001831 & S95T001832

TEST CODE: @lc-01

INSTRUMENT: lc03

WORK LIST #: 2700

BATCH ID:

ANALYST: Ed Colvin

ANALYSIS DATE: 10/06/95

SAMPLE POINT: B-104

SAMPLE PREP: water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A								101.4%	
S95T001831		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	5.05E+02	<0.00
S95T001831dup		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	4.98E+02	<0.00
Duplicate 1 RPD		N/A	N/A	N/A	N/A	N/A	N/A	1.5%	N/A
S95T001832		<0.00	<0.00	<0.00	<0.00	<0.00	0.00E+00	<309.73	<0.00
S95T001832dup		<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<308.39	<0.00
Duplicate 2 RPD		ERR	ERR	ERR	ERR	ERR		N/A	ERR
S95T001831spk								71.2%	

NARRATIVE:

Analyst Comments:

--

Chemist Comments:

--

Form Completed By:

Date:

Chemist Approval:

Date:

276.7

LAB LEADER INFO	
Method:	LA-633-105 D-1
Matrix:	solid
Test Code:	@IC-01
Work List #:	2700
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109NBA
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	10/09/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	10/06/95
Time Complete:	11:30 AM
Instrument Code:	IC03
Rerun:	1
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	109NBA
SAMPLE 1	S96T001831
DUPLICATE 1	S96T001831dup
SAMPLE 2	S96T001832
DUPLICATE 2	S96T001832dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S96T001831spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)							<.160	
Standard Data (µg/mL)							582.8	
Sample 1 Data (µg/mL)							5.18E+00	
Sample 1 Dilution Factor							21	
Sample 1 Prep DF	10.24	10.24	10.24	10.24	10.24	10.24	10.24	10.24
Duplicate 1 Data (µg/mL)							5.16E+00	
Duplicate 1 Dilution Factor							21	
Duplicate 1 Prep DF	10.34	10.34	10.34	10.34	10.34	10.34	10.34	10.34
Sample 2 Data (µg/mL)							<.160	
Sample 2 Dilution Factor							21	
Sample 2 Prep DF	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17
Duplicate 2 Data (µg/mL)							<.160	
Duplicate 2 Dilution Factor							21	
Duplicate 2 Prep DF	10.281	10.281	10.281	10.281	10.281	10.281	10.281	10.281
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)							8.71E+01	
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)							1.00E-01	
Total Volume (mL)							10.60	
Std. Conc. (µg/mL)							575	
Detection Limit							0.160	
Matrix Detection Limit 1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E+02	0.00E+00
Matrix Detection Limit 2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E+02	0.00E+00
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

$$\text{Spike Recovery} = \frac{[(\text{Spike} + \text{Sample}) - (\text{Sample})] \times (\text{Total Volume})}{[(\text{Spike Vol.}) \times (\text{Spike Std.}) \times (\text{Sample DF})]} \times 100\%$$

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

$$\text{Duplicate Relative \% Difference} = \frac{[(\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)] \times 100\%}{\text{Less than Values are Calculated from the Detection Limit} \times \text{Dilution Factor}}$$

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery							101.4%	
Sample 1 in µg/g	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	5.68E+02	<0.00
Duplicate 1 in µg/g	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	4.98E+02	<0.00
Duplicate 1 RPD	N/A	N/A	N/A	N/A	N/A	N/A	1.5%	N/A
Sample 2 in µg/g	<0.00	<0.00	<0.00	<0.00	<0.00	0.00E+00	<309.73	<0.00
Duplicate 2 in µg/g	<0.00	<0.00	<0.00	<0.00	<0.00	<0.00	<306.39	<0.00
Duplicate 2 RPD	ERR	ERR	ERR	ERR	ERR	ERR	N/A	ERR
Spike % Recovery							71.2%	

Data Entry by:

Date: 10/12/95

Approved by:

Date: 10/12/95

Form DIONEX-WB1 Rev. 1.3

276.8

Sample Name: 109N9-A STD Date: 10/06/1995 07:24:18
 Data File : C:\DX\DATA\95100631.D03
 Method : C:\DX\METHOD\KIT.MET
 \CI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : *PN. Ch* Column: AG4A/AS4A anion column/SRS

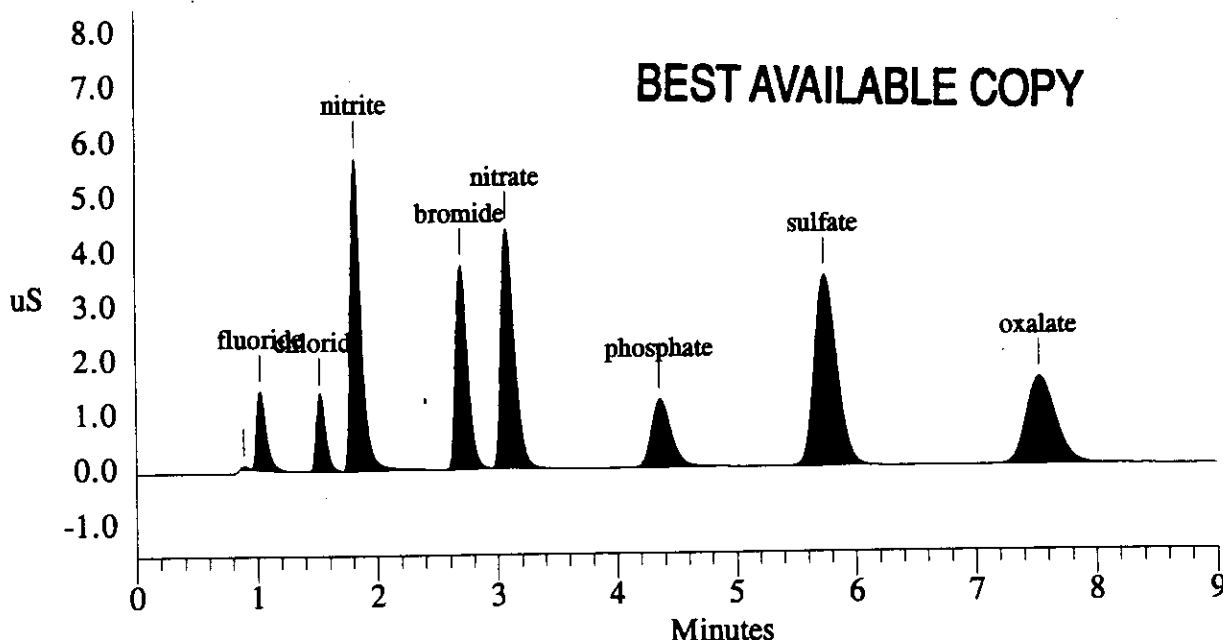
10-06-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	52	202	2	
2	1.03	fluoride	60.771	1435	7654	2	-2.83
3	1.52	chloride	77.635	1393	7322	1	0.00
4	1.82	nitrite	531.026	5721	33995	1	0.00
5	2.70	bromide	582.800	3732	25024	1	0.00
6	3.08	nitrate	608.860	4397	33633	1	0.00
7	4.36	phosphate	558.873	1238	14076	1	-2.68
8	5.74	sulfate	634.475	3503	45464	1	-2.88
9	7.53	oxalate	557.188	1600	27278	1	-3.21
Totals			3611.627	23071	194648		

File: 95100631.D03 Sample: 109N9-A STD



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 276.9 TO 276.11

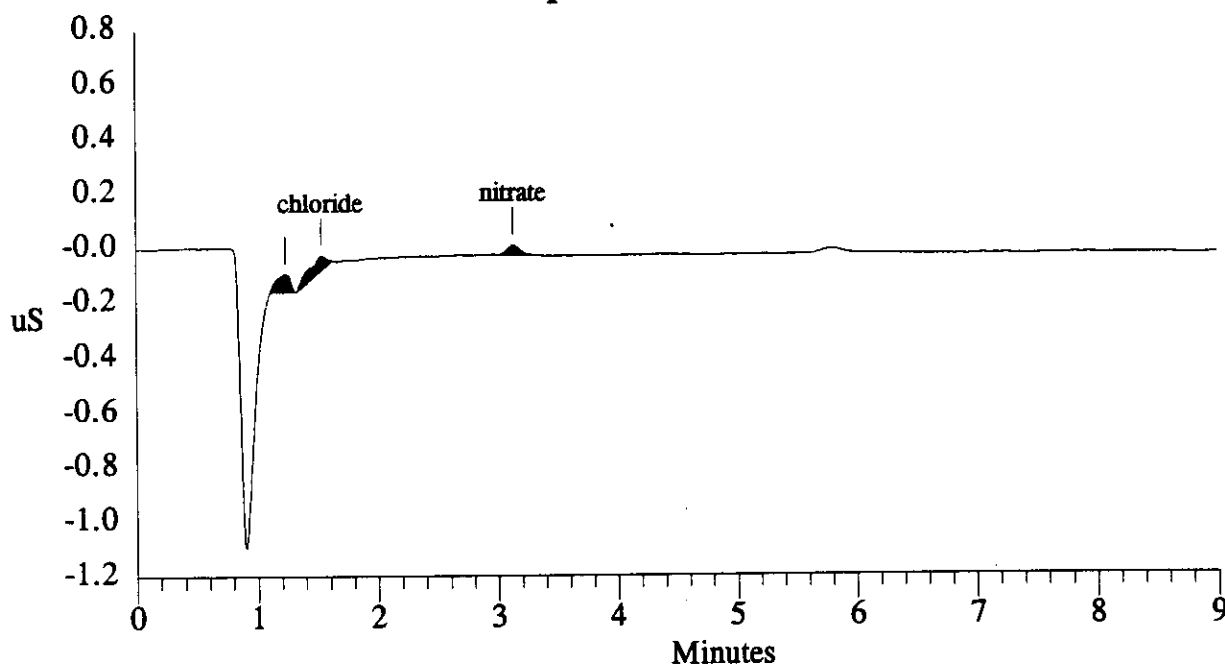
Sample Name: PREP BLANK Date: 10/06/1995 07:13:45
 Data File : C:\DX\DATA\95100631.D02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.23		0.000	66	524	1	
2	1.53	chloride	0.044	54	605	1	0.66
3	3.13	nitrate	0.050	36	254	1	1.62
Totals			0.094	156	1382		

File: 95100631.D02 Sample: PREP BLANK




```

=====
Sample Name: INSTR BLANK                      Date: 10/06/1995 06:59:30
Data File  : C:\DX\DATA\95100631.D01
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 1           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====
  
```

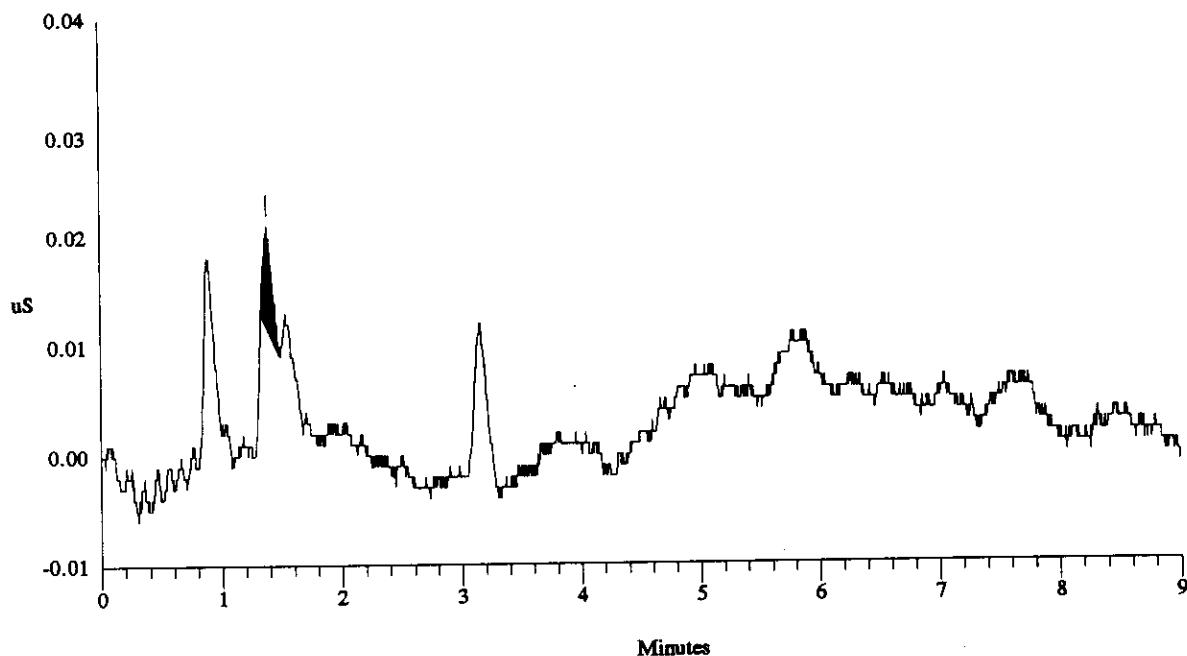
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  2700  5Hz   0.00  9.00          200
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95100631.D01 Sample: INSTR BLANK



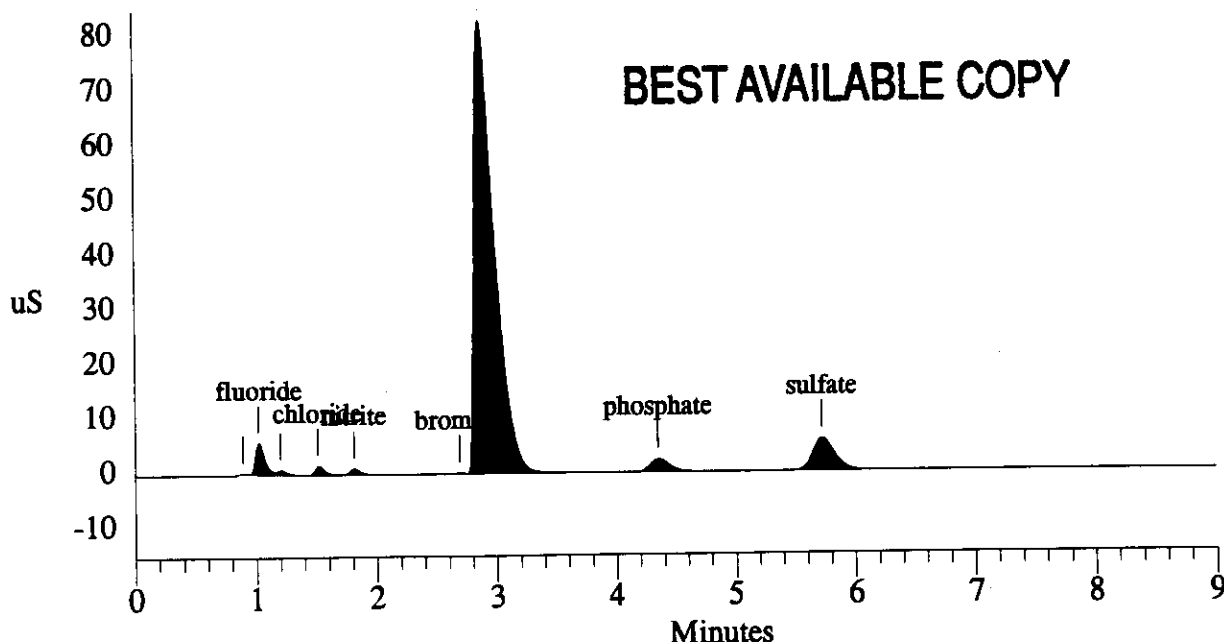
Sample Name: S95T001831 Date: 10/06/1995 07:35:55
 Data File : C:\DX\DATA\95100631.D04
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	122	431	2	
2	1.02	fluoride	46.400	5654	29822	3	-3.77
3	1.20		0.000	713	3672	4	
4	1.51	chloride	19.242	1613	8715	1	-0.66
5	1.81	nitrite	22.435	1113	6653	1	-0.55
6	2.69	bromide	5.176	134	605	1	-0.37
7	2.87	nitrate	1807.886	82752	953936	1	-6.82
8	4.35	phosphate	217.041	2356	27036	1	-2.90
9	5.72	sulfate	218.208	5926	76381	1	-3.21
Totals			2336.388	100383	1107249		

File: 95100631.D04 Sample: S95T001831



```

=====
Sample Name: S95T001831 DUP                      Date: 10/06/1995 08:06:47
Data File   : C:\DX\DATA\95100631.D07
Method      : C:\DX\METHOD\KIT.MET
VCI Address: 1 System: 1 Inject#: 7              Detector: CDM-1
Analyst     :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

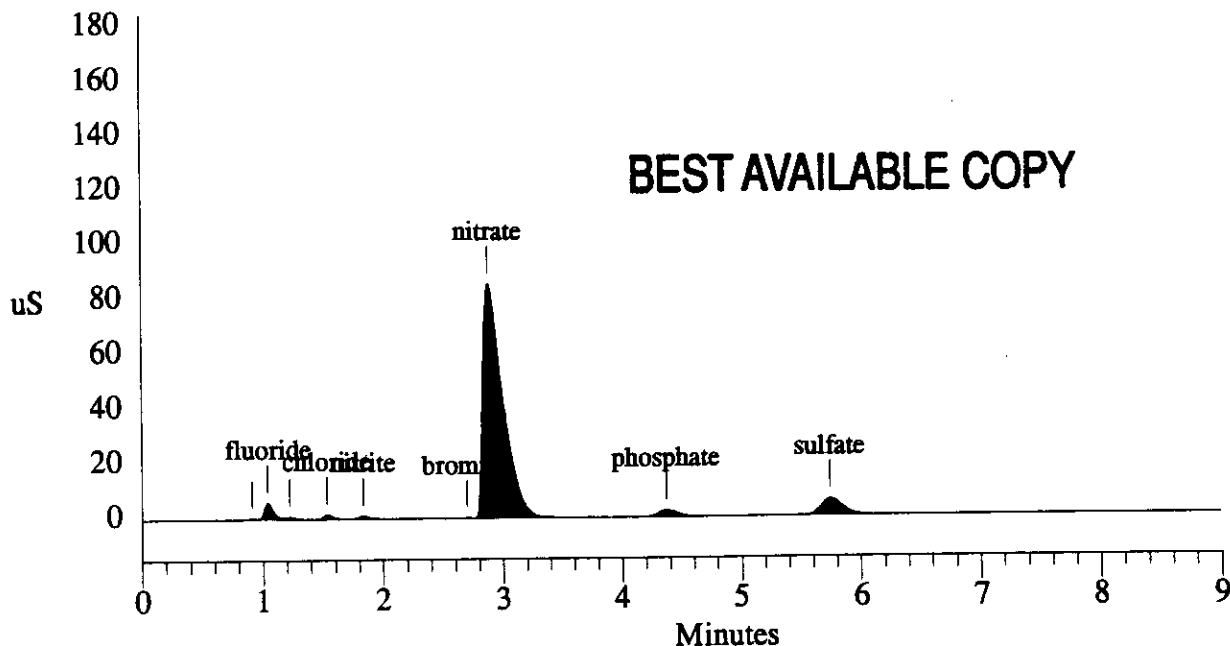
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    2700   5Hz   0.00   9.00         200
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	115	388	2	
2	1.04	fluoride	48.020	5978	30956	3	-1.89
3	1.22		0.000	816	4041	4	
4	1.53	chloride	20.339	1711	9209	1	0.66
5	1.83	nitrite	23.292	1165	6916	1	0.55
6	2.70	bromide	5.150	134	599	1	0.00
7	2.88	nitrate	1804.525	85299	986070	1	-6.49
8	4.37	phosphate	222.559	2450	27761	1	-2.46
9	5.74	sulfate	226.601	6134	79435	1	-2.88
Totals			2350.485	103802	1145375		

File: 95100631.D07 Sample: S95T001831 DUP



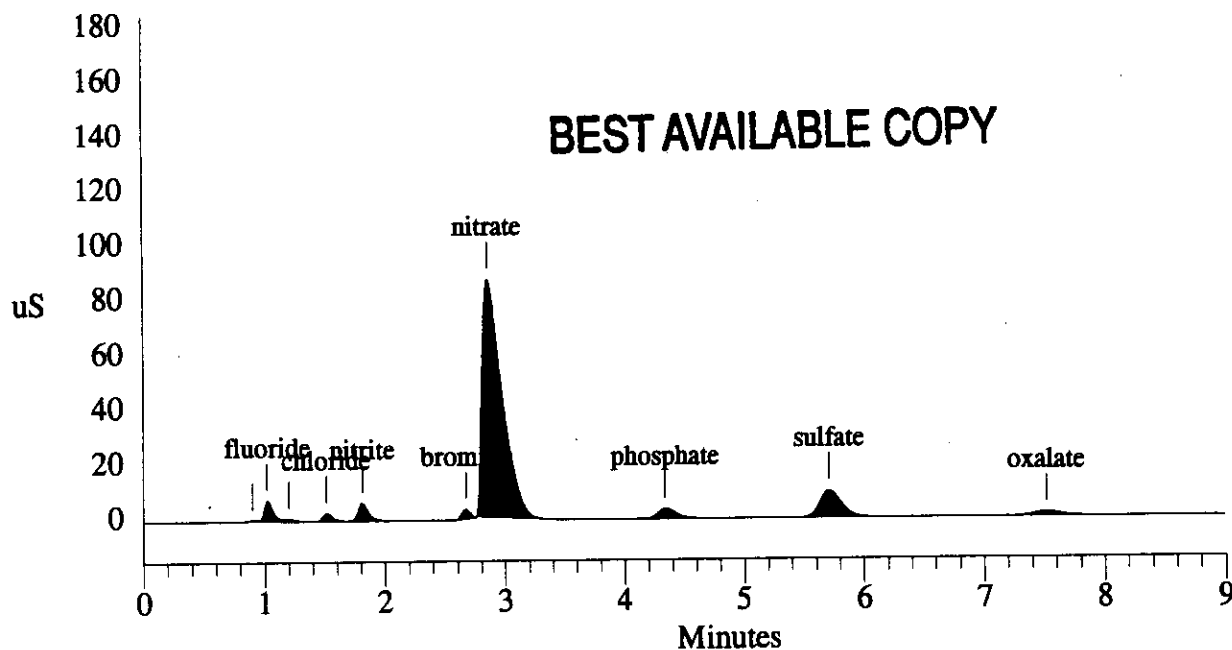
Sample Name: S95T001831+ SPIKE Date: 10/06/1995 08:20:31
 Data File : C:\DX\DATA\95100631.D08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	162	539	2	
2	1.02	fluoride	59.286	7452	39054	3	-3.77
3	1.20		0.000	777	4093	4	
4	1.51	chloride	36.559	3004	16648	1	-0.66
5	1.81	nitrite	130.228	6629	40251	1	-0.55
6	2.67	bromide	87.063	3580	17751	1	-1.11
7	2.86	nitrate	1802.623	86942	996074	1	-7.14
8	4.34	phosphate	333.865	3807	42746	1	-3.12
9	5.71	sulfate	359.667	10028	129087	1	-3.38
10	7.52	oxalate	110.904	1532	26070	1	-3.34
Totals			2920.195	123912	1312313		

File: 95100631.D08 Sample: S95T001831+ SPIKE



```

=====
Sample Name: S95T001832                      Date: 10/06/1995 08:31:18
Data File  : C:\DX\DATA\95100631.D09
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 9           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700   5Hz   0.00   9.00          200
-----

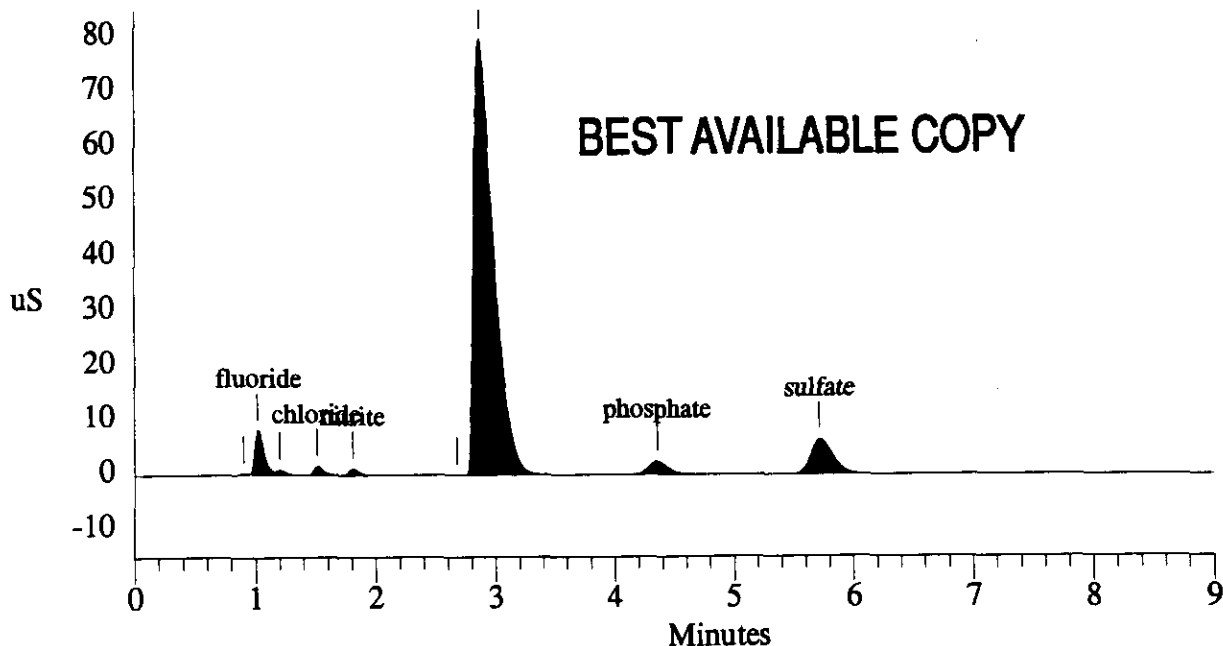
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***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	97	287	2	
2	1.02	fluoride	63.341	8007	42067	3	-3.77
3	1.20		0.000	712	3575	4	
4	1.51	chloride	19.062	1610	8634	1	-0.66
5	1.81	nitrite	23.393	1176	6947	1	-0.55
7	2.87	bromide	1505.987	79602	909139	1	6.30
8	4.36	phosphate	213.273	2346	26543	1	-2.68
9	5.72	sulfate	233.397	6312	81915	1	-3.21
Totals			2058.453	99862	1079106		

*miss labeled this is NO3
gmp
10/6/95*

File: 95100631.D09 Sample: S95T001832



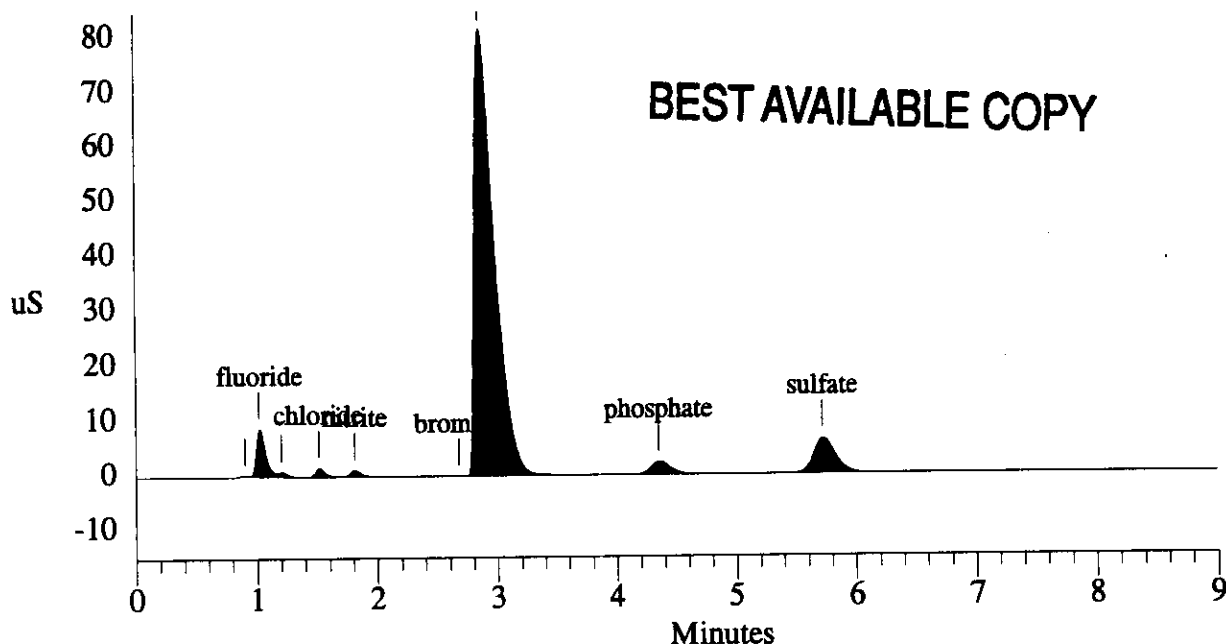
Sample Name: S95T001832 DUP Date: 10/06/1995 08:41:11
 Data File : C:\DX\DATA\95100631.D10
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
 Analyst : *PH. Cahn* Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	122	388	2	
2	1.02	fluoride	67.045	8556	44867	3	-3.77
3	1.20		0.000	737	3730	4	
4	1.51	chloride	19.658	1663	8902	1	-0.66
5	1.81	nitrite	24.254	1215	7211	1	-0.55
6	2.68	bromide	3.231	44	203	1	-0.74
7	2.86	nitrate	1807.813	81161	932810	1	-7.14
8	4.35	phosphate	220.570	2404	27499	1	-2.90
9	5.72	sulfate	236.671	6449	83112	1	-3.21
Totals			2379.242	102352	1108722		

File: 95100631.D10 Sample: S95T001832 DUP



276.16

LABCORE Data Entry Template for Worklist#

2815

Analyst: PC

Instrument: IC01 IC01

Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: Rerun IC, all except NO3. JMF used 21 DF. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP		01C-01	F-02	SOLID	<u>1</u>	<u>2.062</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	CL-02	SOLID	<u>1</u>	<u>2.083</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	NO2-02	SOLID	<u>1</u>	<u>2.547</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	BR-02	SOLID	<u>1</u>	<u>2.150</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	NO3-02	SOLID	<u>1</u>	<u>N/A</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	PO4-02	SOLID	<u>1</u>	<u>2.596</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	SO4-02	SOLID	<u>1</u>	<u>2.678</u>	<u>N/A</u>	ug/g
		1 BLNK-PREP		01C-01	OXALATE2	SOLID	<u>1</u>	<u>2.496</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	F-02	SOLID	<u>1</u>	<u>2.067</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	CL-02	SOLID	<u>1</u>	<u>2.083</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	NO2-02	SOLID	<u>1</u>	<u>2.547</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	BR-02	SOLID	<u>1</u>	<u>2.150</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	NO3-02	SOLID	<u>1</u>	<u>N/A</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	PO4-02	SOLID	<u>1</u>	<u>2.596</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	SO4-02	SOLID	<u>1</u>	<u>2.678</u>	<u>N/A</u>	ug/g
		2 CCB		01C-01	OXALATE2	SOLID	<u>1</u>	<u>2.496</u>	<u>N/A</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	01C-01	F-02	<u>N/A</u>	<u>3.83</u>	<u>9.83e1</u>	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	01C-01	CL-02	<u>N/A</u>	<u>2.23</u>	<u>1.32e02</u>	ug/g

Data Entry Comments:

Matrix interference with several analytes causing poor spike recovery. JMF
LMCS 109N9-A .1 ml - 10 ml
SPIKE 109N9-A .1 ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2815

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000085	B-104	3 SAMPLE	S95T001819	0 W	QIC-01 NO2-02	SOLID	N/A	1.68 ^{E3}	8.68 ^{E02}	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	QIC-01 BR-02	SOLID	N/A	2.38 ^{E2}	2.38 ^{E2}	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	QIC-01 PO4-02	SOLID	N/A	1.99 ^{E4}	9.45 ^{E02}	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	QIC-01 SO4-02	SOLID	N/A	1.94 ^{E4}	1.08 ^{E03}	ug/g
95000085	B-104	3 SAMPLE	S95T001819	0 W	QIC-01 OXALATE2	SOLID	N/A	2.38 ^{E2}	2.38 ^{E2}	ug/g
		4 CCV			QIC-01 F-02	SOLID	59	63.222	N/A	ug/g
		4 CCV			QIC-01 CL-02	SOLID	79	82.275	N/A	ug/g
		4 CCV			QIC-01 NO2-02	SOLID	533	552.286	N/A	ug/g
		4 CCV			QIC-01 BR-02	SOLID	575	590.101	N/A	ug/g
		4 CCV			QIC-01 NO3-02	SOLID	N/A	N/A	N/A	ug/g
		4 CCV			QIC-01 PO4-02	SOLID	546	553.666	N/A	ug/g
		4 CCV			QIC-01 SO4-02	SOLID	631	658.845	N/A	ug/g
		4 CCV			QIC-01 OXALATE2	SOLID	526	574.097	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 F-02	SOLID	3.83 ^{E3}	3.71 ^{E3}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 CL-02	SOLID	2.23 ^{E3}	1.84 ^{E3}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 NO2-02	SOLID	1.68 ^{E3}	1.65 ^{E3}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 BR-02	SOLID	2.38 ^{E2}	2.38 ^{E2}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 NO3-02	SOLID	N/A	N/A	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 PO4-02	SOLID	1.99 ^{E4}	1.91 ^{E4}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 SO4-02	SOLID	1.94 ^{E4}	1.87 ^{E4}	N/A	ug/g
95000085	B-104	5 DUP	S95T001819	0 W	QIC-01 OXALATE2	SOLID	2.38 ^{E2}	2.38 ^{E2}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2815

U/P	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
0000085	B-104	6 SPK	S95T001819	0 W	QIC-01 F-02	SOLID	100	27.3	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 CL-02	SOLID	100	54.4	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 NO2-02	SOLID	100	99.7	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 BR-02	SOLID	100	64.0 N/A	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 NO3-02	SOLID	100	64.6 N/A	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 PO4-02	SOLID	100	72.9 N/A	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 SO4-02	SOLID	100	72.9 N/A	N/A	ug/g
95000085	B-104	6 SPK	S95T001819	0 W	QIC-01 OXALATE2	SOLID	100	108.9	N/A	ug/g

Final page for worklist #

2815

E.H. Cohn 10-11-95
Analyst Signature Date

Verified 10/16/95
J.M. Lutz

[Signature] 10-12-95
Analyst Signature Date
FOR
RT STEER

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

Sample Name: 109N9-A STD .1-10

Date: 10/11/1995 08:48:52

Data File : C:\DX\DATA\95101151.D03

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 3

Detector: CDM-1

Analyst : *PM. Col* Column: AG4A/AS4A anion column/SRS

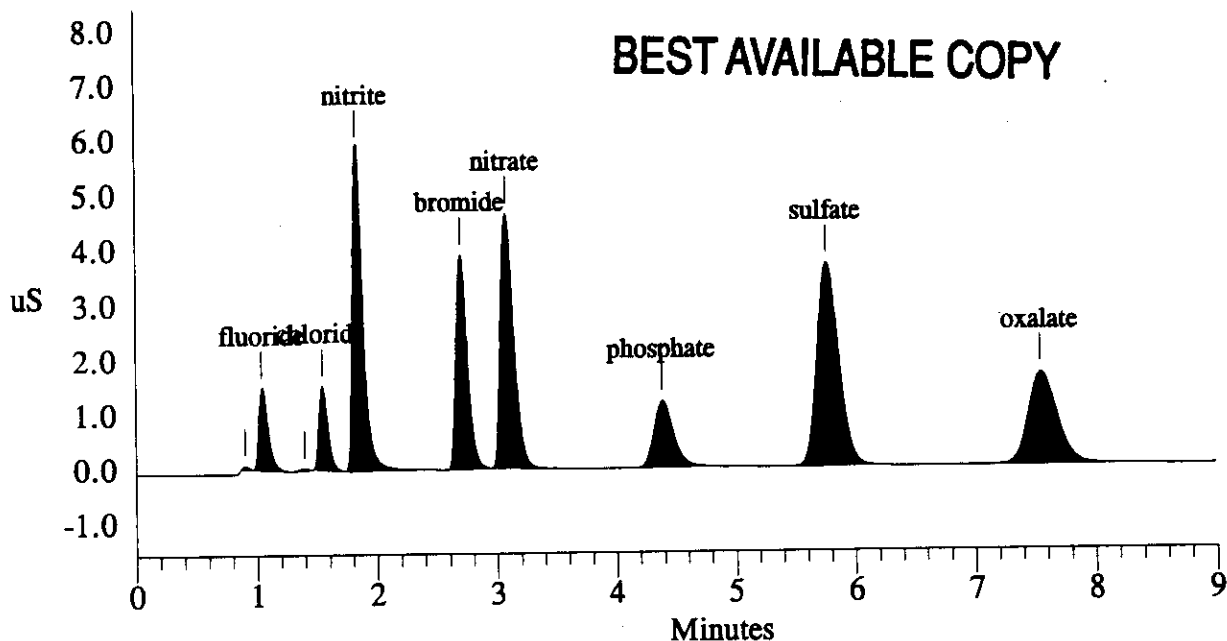
10/11/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	64	238	2	
2	1.04	fluoride	63.222	1499	7970	2	-1.89
3	1.39		0.000	43	210	1	
4	1.54	chloride	82.275	1532	7755	1	1.32
5	1.83	nitrite	552.286	5898	35387	1	0.55
6	2.70	bromide	590.101	3913	25349	1	0.00
7	3.08	nitrate	642.035	4640	35502	1	0.00
8	4.38	phosphate	553.666	1224	13939	1	-2.23
9	5.76	sulfate	658.845	3709	47255	1	-2.54
10	7.54	oxalate	574.097	1677	28138	1	-3.08
Totals			3716.526	24197	201745		

File: 95101151.D03 Sample: 109N9-A STD .1-10



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 282 TO 287.

WHC-SD-WM-DP-137, REV. 1

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=====
Sample Name: INSTR BLANK                      Date: 10/11/1995 08:22:54
Data File  : C:\DX\DATA\95101151.D01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 1          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

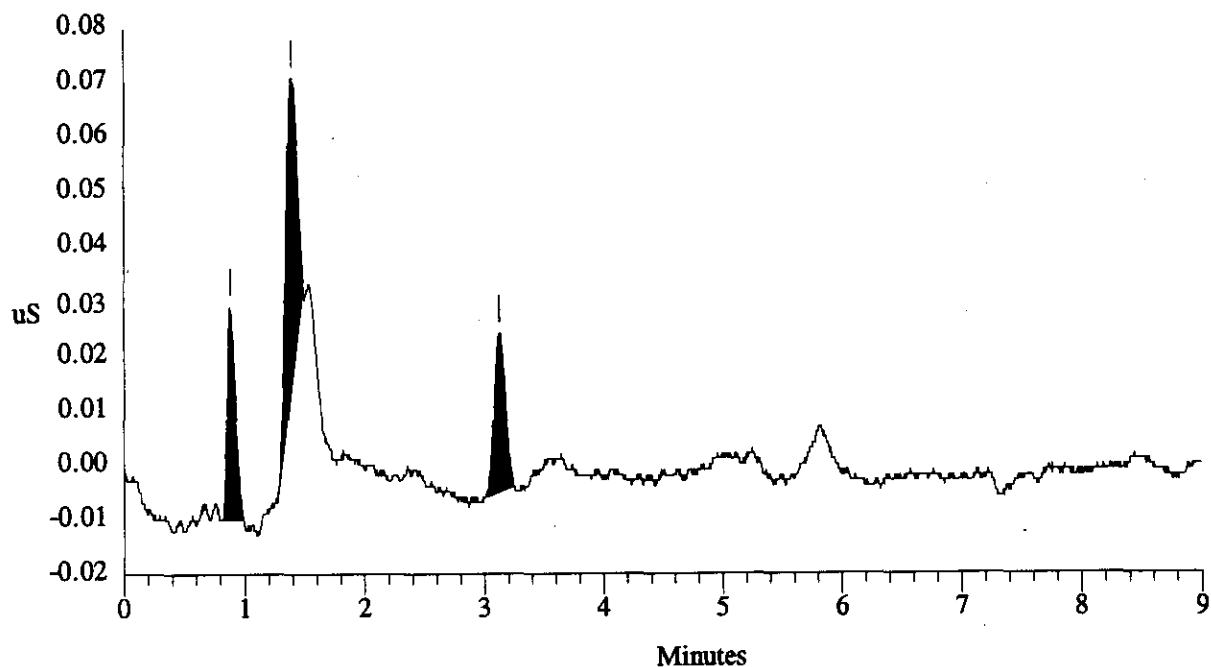
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1  2700  5Hz  0.00  9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.39		0.000	57	360	1	
Totals			0.000	57	360		

File: 95101151.D01 Sample: INSTR BLANK



WHC-SD-WM-DP- 137, REV. 1

```

=====
Sample Name: PREP BLANK                      Date: 10/11/1995 08:34:06
Data File  : C:\DX\DATA\95101151.D02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

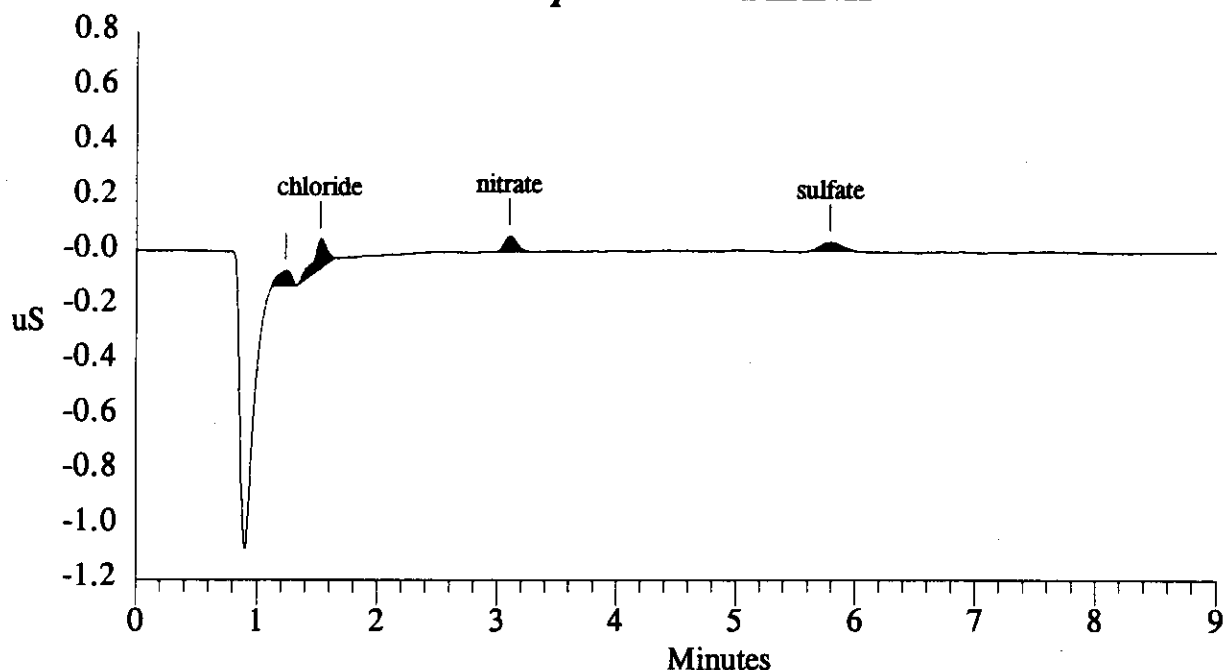
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.23		0.000	56	436	1	
2	1.52	chloride	0.072	108	858	1	0.00
3	3.10	nitrate	0.075	56	387	1	0.65
4	5.79	sulfate	0.082	32	385	1	-2.03
Totals			0.228	252	2066		

File: 95101151.D02 Sample: PREP BLANK



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001819 .5-10          Date: 10/11/1995 09:06:31
Data File  : C:\DX\DATA\95101151.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column/SRS
=====

```

```

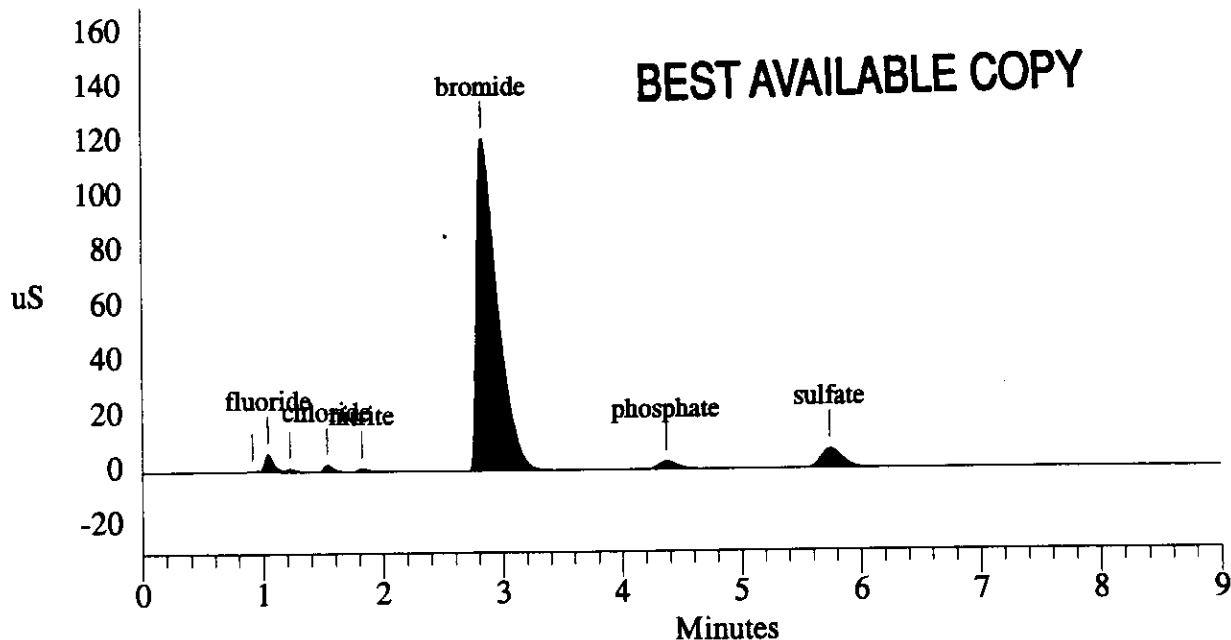
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700  5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	178	605	2	
2	1.04	fluoride	50.689	6315	32841	3	-1.89
3	1.22		0.000	908	4475	4	
4	1.53	chloride	29.485	2501	13374	1	0.66
5	1.82	nitrite	22.246	1094	6595	1	0.00
6	2.83	bromide	-382.554	121084	1456491	1	4.81
7	4.37	phosphate	263.506	2916	33190	1	-2.46
8	5.74	sulfate	256.736	7084	90476	1	-2.88
Totals			240.108	142079	1638046		

File: 95101151.D04 Sample: S95T001819 .5-10



WHC-SD-WM-DP-137, REV.1

```

=====
Sample Name: S95T001819 DUP .5-10      Date: 10/11/1995 10:08:43
Data File  : C:\DX\DATA\95101151.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 5      Detector: CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
=====

```

```

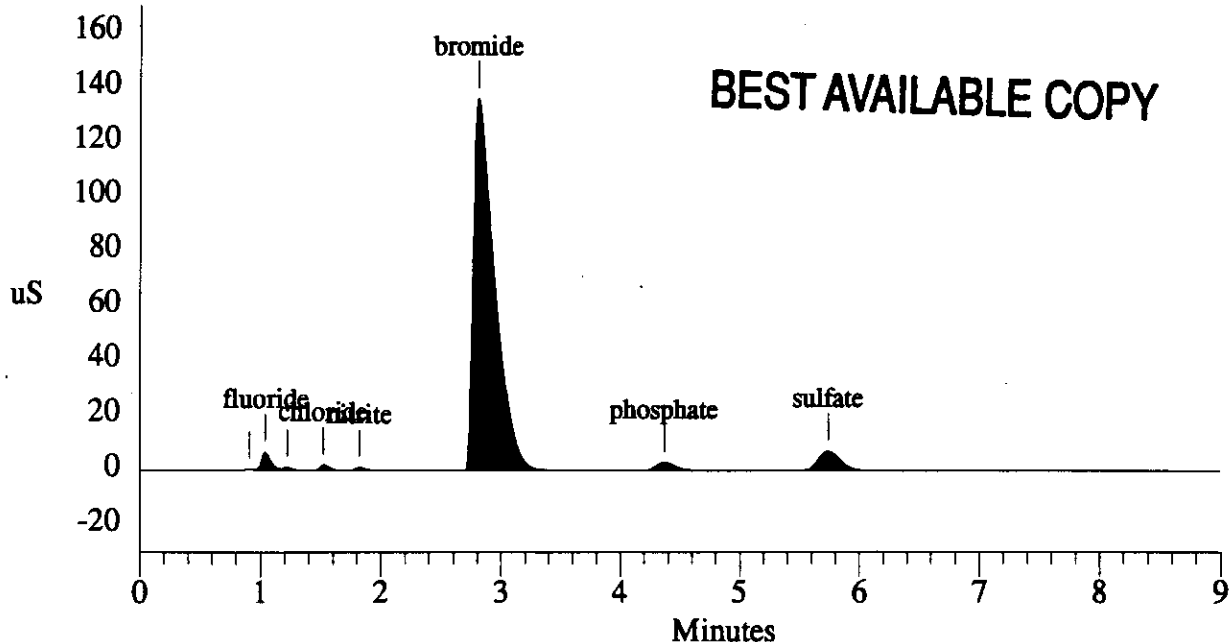
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  2700  5Hz   0.00  9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	202	698	2	
2	1.04	fluoride	51.543	6495	33448	3	-1.89
3	1.22		0.000	1024	5360	4	
4	1.52	chloride	25.545	2058	11571	1	0.00
5	1.82	nitrite	22.953	1128	6812	1	0.00
6	2.81	bromide	-1691.430	135882	1670420	1	4.07
7	4.37	phosphate	264.876	2946	33373	1	-2.46
8	5.74	sulfate	260.485	7183	91858	1	-2.88
Totals			-1066.029	156918	1853539		

File: 95101151.D05 Sample: S95T001819 DUP .5-10



WHC-SD-WM-DP-132, REV.1

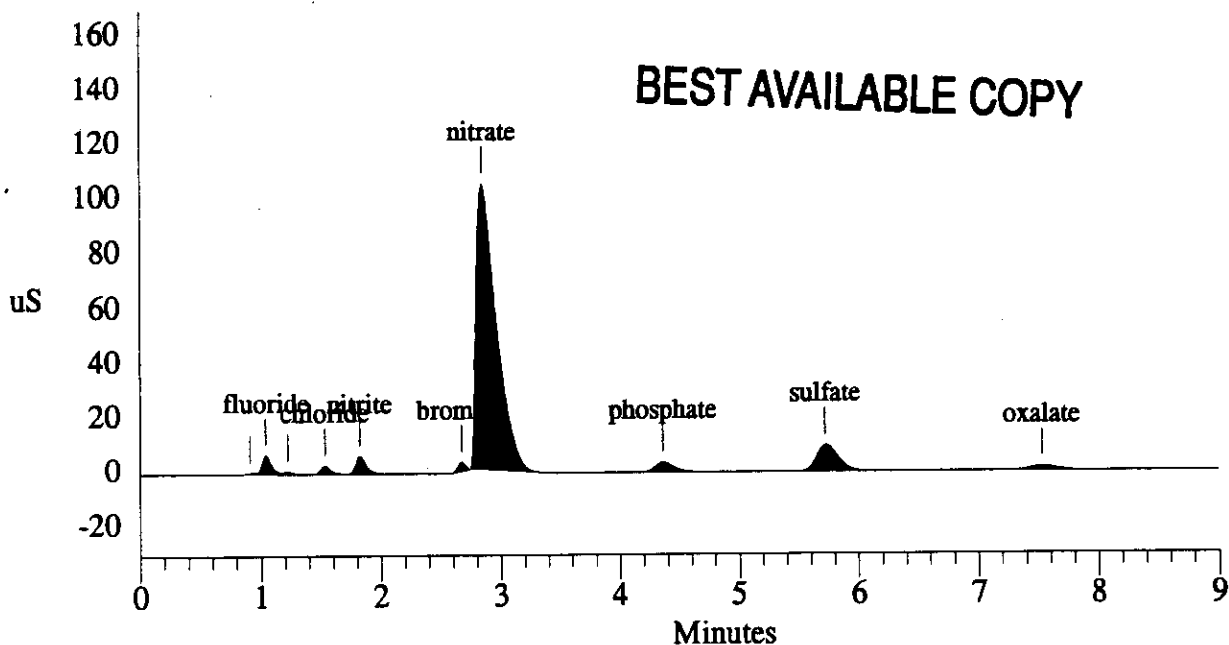
Sample Name: S95T001819 SPK .5-10 Date: 10/11/1995 10:25:15
 Data File : C:\DX\DATA\95101151.D06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : *P.N. Cohn* Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	186	651	2	
2	1.04	fluoride	53.910	6743	35142	3	-1.89
3	1.22		0.000	832	4248	4	
4	1.53	chloride	38.082	3184	17359	1	0.66
5	1.82	nitrite	128.504	6456	39706	1	0.00
6	2.67	bromide	73.596	3328	14901	1	-1.11
7	2.85	nitrate	1678.106	104165	1197377	1	-7.47
8	4.36	phosphate	334.026	3789	42768	1	-2.68
9	5.72	sulfate	348.720	9771	124912	1	-3.21
10	7.53	oxalate	114.535	1601	26956	1	-3.21
Totals			2769.479	140055	1504019		

File: 95101151.D06 Sample: S95T001819 SPK .5-10



WHC-SD-WM-DP-132, REV. 1

LABCORE Data Entry Template for Worklist#

2843

Analyst: R. McCann Instrument: IC01 IC01 Book # 109N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCV			IC-01 F-02	SOLID		64.7	N/A	ug/g
		1 CCV			IC-01 CL-02	SOLID		78.3	N/A	ug/g
		1 CCV			IC-01 NO2-02	SOLID		527.3	N/A	ug/g
		1 CCV			IC-01 BR-02	SOLID		579.7	N/A	ug/g
		1 CCV			IC-01 NO3-02	SOLID		624.7	N/A	ug/g
		1 CCV			IC-01 PO4-02	SOLID		553.2	N/A	ug/g
		1 CCV			IC-01 SO4-02	SOLID		645.6	N/A	ug/g
		1 CCV			IC-01 OXALATE2	SOLID		564.4	N/A	ug/g
		2 CCB			IC-01 F-02	SOLID		6.062	N/A	ug/g
		2 CCB			IC-01 CL-02	SOLID		6.083	N/A	ug/g
		2 CCB			IC-01 NO2-02	SOLID		6.547	N/A	ug/g
		2 CCB			IC-01 BR-02	SOLID		6.150 gmf 10/16/95	N/A	ug/g
		2 CCB			IC-01 NO3-02	SOLID		6.699 gmf 10/16/95	N/A	ug/g
		2 CCB			IC-01 PO4-02	SOLID		6.596	N/A	ug/g
		2 CCB			IC-01 SO4-02	SOLID		6.678	N/A	ug/g
		2 CCB			IC-01 OXALATE2	SOLID		6.496	N/A	ug/g
		3 BLNK-PREP			IC-01 F-02	SOLID		6.062	N/A	ug/g
		3 BLNK-PREP			IC-01 CL-02	SOLID		6.083	N/A	ug/g

Data Entry Comments:

gmF 10/16/95 SAM DCLP
595T001848 5.3990 5.3450
595T001849 8.3330 8.2700

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2843

XJP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				QIC-01 NO2-02	SOLID		<.547	N/A	ug/g
		3	BLNK-PREP				QIC-01 BR-02	SOLID		<.150	N/A	ug/g
		3	BLNK-PREP				QIC-01 NO3-02	SOLID		<.699	N/A	ug/g
		3	BLNK-PREP				QIC-01 PO4-02	SOLID		<.596	N/A	ug/g
		3	BLNK-PREP				QIC-01 SO4-02	SOLID		<.678	N/A	ug/g
		3	BLNK-PREP				QIC-01 OXALATE2	SOLID		<.496	N/A	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 F-02	SOLID	N/A	3.78e3	2.41e2	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 CL-02	SOLID	N/A	1.89e3	3.23e2	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 NO2-02	SOLID	N/A	2.13e3	2.13e3	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 BR-02	SOLID	N/A	5.83e2	5.83e2	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 NO3-02	SOLID	N/A	2.83e5	1.31e4	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 PO4-02	SOLID	N/A	2.20e4	2.32e3	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 SO4-02	SOLID	N/A	2.07e4	2.64e3	ug/g
95000088	B-104	4	SAMPLE	S95T001848	0	W	QIC-01 OXALATE2	SOLID	N/A	1.93e3	1.93e3	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 F-02	SOLID	3.78e3	2.47e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 CL-02	SOLID	1.89e3	1.87e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 NO2-02	SOLID	2.13e3	2.13e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 BR-02	SOLID	5.83e2	5.83e2	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 NO3-02	SOLID	2.83e5	2.94e5	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 PO4-02	SOLID	2.20e4	2.02e4	N/A	ug/g
95000088	B-104	5	DUP	S95T001848	0	W	QIC-01 SO4-02	SOLID	2.07e4	1.79e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2843

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001848	0 W	@IC-01 OXALATE2	SOLID	<1.93e3	<1.93e3	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 F-02	SOLID		85.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 CL-02	SOLID		96.9	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 NO2-02	SOLID		109.1	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 BR-02	SOLID		95.7	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 NO3-02	SOLID		109.5	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 PO4-02	SOLID		90.7	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 SO4-02	SOLID		95.2	N/A	ug/g
95000088	B-104	6 SPK	S95T001848	0 W	@IC-01 OXALATE2	SOLID		107.8	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 F-02	SOLID	N/A	3.95e3	1.56e2	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 CL-02	SOLID	N/A	1.90e3	2.09e2	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 NO2-02	SOLID	N/A	1.89e3	1.8e2	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 BR-02	SOLID	N/A	5.06e2	3.78e2	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 NO3-02	SOLID	N/A	2.81e5	8.47e3	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 PO4-02	SOLID	N/A	2.29e4	1.50e3	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 SO4-02	SOLID	N/A	1.84e4	1.71e3	ug/g
95000088	B-104	7 SAMPLE	S95T001849	0 W	@IC-01 OXALATE2	SOLID	N/A	<1.25e3	1.25e3	ug/g
95000088	B-104	8 DUP	S95T001849	0 W	@IC-01 F-02	SOLID	3.95e3	2.72e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001849	0 W	@IC-01 CL-02	SOLID	1.90e3	1.98e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001849	0 W	@IC-01 NO2-02	SOLID	1.89e3	1.95e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001849	0 W	@IC-01 BR-02	SOLID	5.06e2	5.13e2	N/A	ug/g
95000088	B-104	8 DUP	S95T001849	0 W	@IC-01 NO3-02	SOLID	2.81e5	2.92e5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2843

REP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001849	0 W	QIC-01	PO4-02	SOLID	<u>2.29e4</u>	<u>2.16e4</u>	<u>N/A</u> ug/g
95000088	B-104	8 DUP	S95T001849	0 W	QIC-01	SO4-02	SOLID	<u>1.84e4</u>	<u>1.89e4</u>	<u>N/A</u> ug/g
95000088	B-104	8 DUP	S95T001849	0 W	QIC-01	OXALATE2	SOLID	<u>4.25e3</u>	<u>4.25e3</u>	<u>N/A</u> ug/g

Final page for worklist #

2843

PS McCown 10/12/95
Analyst Signature Date

Analyst Signature Date

Entered & Verified 10/14/95.
Jann M. Lutz

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001848 & S95T001849 TEST CODE: @IC-01 INSTRUMENT: ICo1 WORK LIST #: 2843 BATCH ID:	ANALYST: Pat McCown ANALYSIS DATE: 10/12/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	--

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9a		109.7%	99.1%	98.9%	101.7%	101.3%	102.3%	100.8%	107.3%
S95T001848		3.78E+03	1.89E+03	<2127.62	2.83E+05	2.20E+04	2.07E+04	<583.44	<1929.25
S95T001848dup		2.47E+03	1.87E+03	<2149.11	2.94E+05	2.02E+04	1.79E+04	<589.34	<1948.74
Duplicate 1 RPD		42.0%	0.8%	N/A	3.7%	8.1%	14.5%	N/A	N/A
S95T001849		3.95E+03	1.90E+03	1.89E+03	2.81E+05	2.29E+04	1.84E+04	5.06E+02	<1249.97
S95T001849dup		2.72E+03	1.98E+03	1.95E+03	2.92E+05	2.16E+04	1.89E+04	5.13E+02	<1259.49
Duplicate 2 RPD		36.7%	4.4%	3.1%	4.0%	6.2%	2.5%	1.3%	N/A
S95T001848spk		85.3%	96.9%	109.1%	109.5%	90.7%	95.2%	95.7%	107.8%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>Pat McCown</i>	Date: 10/16/95
Chemist Approval: <i>Pat McCown</i>	Date: 10/16/95

232

LAB LEADER INFO	
Method:	LA-533-105 d-1
Matrix:	solid
Test Code:	CMC-01
Work List #:	2843
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N8A
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	10/16/95
Chemist:	Jann Frye
Analyst:	Pat McCown
Analysis Date:	10/12/95
Time Complete:	
Instrument Code:	ICo1
Run:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	109N8a
SAMPLE 1	S95T001848
DUPLICATE 1	S95T001848dup
SAMPLE 2	S95T001848
DUPLICATE 2	S95T001848dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001848spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.063	<.547	<.699	<.696	<.678	<.160	<.496

Standard Data (µg/mL)	64.7	78.3	527.3	624.7	663.2	645.6	679.7	664.4
-----------------------	------	------	-------	-------	-------	-------	-------	-------

Sample 1 Data (µg/mL)	2.04E+01	1.02E+01	<.547	1.63E+03	1.19E+02	1.12E+02	<.160	<.496
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21
Sample 1 Prep DF	6.399	6.399	6.399	6.399	6.399	6.399	6.399	6.399
Duplicate 1 Data (µg/mL)	1.32E+01	1.00E+01	<.547	1.67E+03	1.08E+02	9.68E+01	<.160	<.496
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 1 Prep DF	6.346	6.346	6.346	6.346	6.346	6.346	6.346	6.346

Sample 2 Data (µg/mL)	3.20E+01	1.68E+01	1.68E+01	2.34E+03	1.91E+02	1.63E+02	4.22E+00	<.496
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21
Sample 2 Prep DF	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333
Duplicate 2 Data (µg/mL)	2.28E+01	1.64E+01	1.61E+01	2.42E+03	1.78E+02	1.56E+02	4.24E+00	<.496
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 2 Prep DF	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27

Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								

Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								

Spike + Sample 1 (µg/mL)	3.05E+01	2.66E+01	1.16E+02	2.20E+03	2.18E+02	2.32E+02	1.10E+02	1.13E+02
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.60	10.60	10.60	10.10	10.60	10.60	10.60	10.60
Std. Conc. (µg/mL)	69	79	533	614	646	631	678	628
Detection Limit	0.062	0.063	0.547	0.699	0.696	0.678	0.160	0.496
Matrix Detection Limit 1	2.41E+02	3.23E+02	2.13E+03	1.31E+04	2.32E+03	2.64E+03	6.83E+02	1.93E+03
Matrix Detection Limit 2	1.66E+02	2.09E+02	1.36E+03	8.47E+03	1.60E+03	1.71E+03	3.78E+02	1.26E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = ((Spike+Sample)-(Sample))/(Total Volume)/((Spike Vol.)*(Spike Std.)*(Sample DF))/100%

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample + Duplicate) / 2) * 100%)

Less than values are Calculated from the Detection Limit Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	109.7%	99.1%	88.9%	101.7%	101.3%	102.3%	100.8%	107.3%
Sample 1 in µg/g	3.78E+03	1.88E+03	<2127.62	2.83E+06	2.20E+04	2.07E+04	<583.44	<1929.38
Duplicate 1 in µg/g	2.47E+03	1.67E+03	<2148.11	2.94E+06	2.02E+04	1.79E+04	<589.34	<1948.74
Duplicate 1 RPD	42.0%	0.8%	N/A	3.7%	8.1%	14.6%	N/A	N/A
Sample 2 in µg/g	3.98E+03	1.90E+03	1.88E+03	2.81E+06	2.29E+04	1.64E+04	8.06E+02	<1249.97
Duplicate 2 in µg/g	2.72E+03	1.98E+03	1.96E+03	2.92E+06	2.16E+04	1.69E+04	6.13E+02	<1269.49
Duplicate 2 RPD	36.7%	4.4%	3.1%	4.0%	6.2%	2.6%	1.3%	N/A
Spike % Recovery	88.3%	96.9%	108.1%	109.6%	90.7%	96.2%	96.7%	107.8%

Data Entry by:	<i>Jann Frye</i>	Date:	10/16/95
Approved by:	<i>Jann Frye</i>	Date:	10/16/95

Form DIONEX-WB1 Rev. 1.3

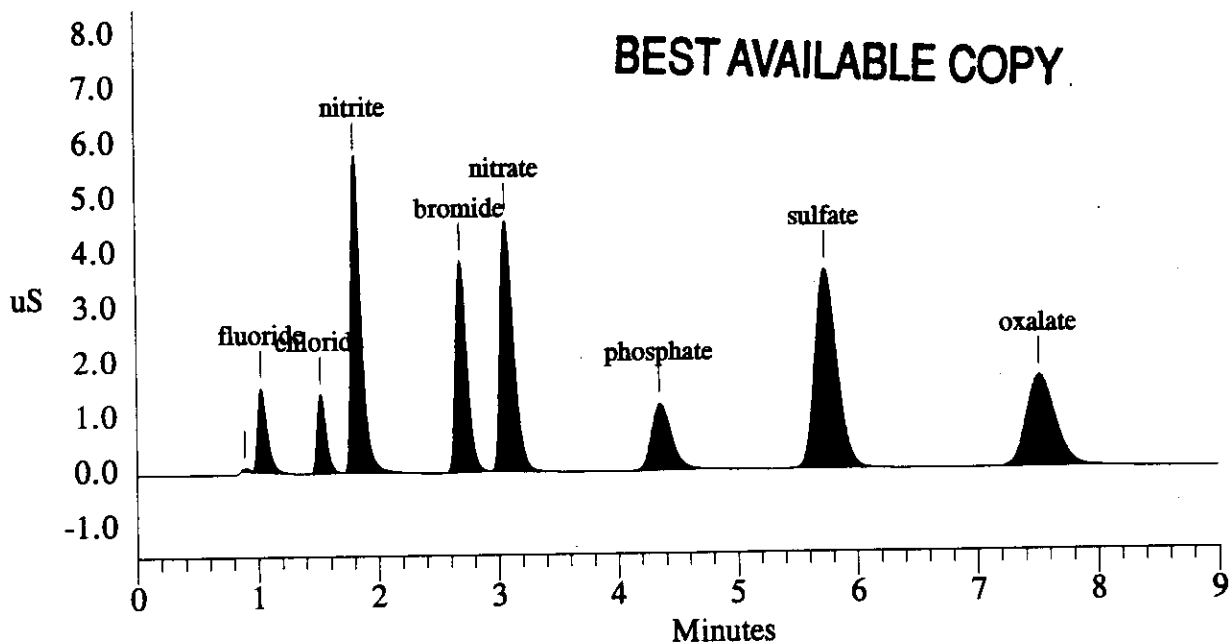
Sample Name: 109N9A CCV Date: 10/12/1995 01:37:41
 Data File : C:\DX\DATA\95101261.D01
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	64.722	1536	8164	2	-2.83
3	1.52	chloride	78.274	1450	7382	1	0.00
4	1.81	nitrite	527.333	5708	33753	1	-0.55
5	2.69	bromide	579.762	3863	24889	1	-0.37
6	3.07	nitrate	624.785	4573	34530	1	-0.32
7	4.35	phosphate	553.204	1212	13927	1	-2.90
8	5.74	sulfate	645.688	3641	46288	1	-2.88
9	7.52	oxalate	564.414	1657	27645	1	-3.34
Totals			3638.182	23641	196578		

• 100mL - 10mL *RT McCown* 10/12/95
 File: 95101261.D01 Sample: 109N9A CCV



WHC-SD-WM-DP-137, REV.1


```

=====
Sample Name: CCB                               Date: 10/12/1995 02:06:51
Data File  : C:\DX\DATA\95101261.D02
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 2           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  2700  5Hz  0.00  9.00          200
-----

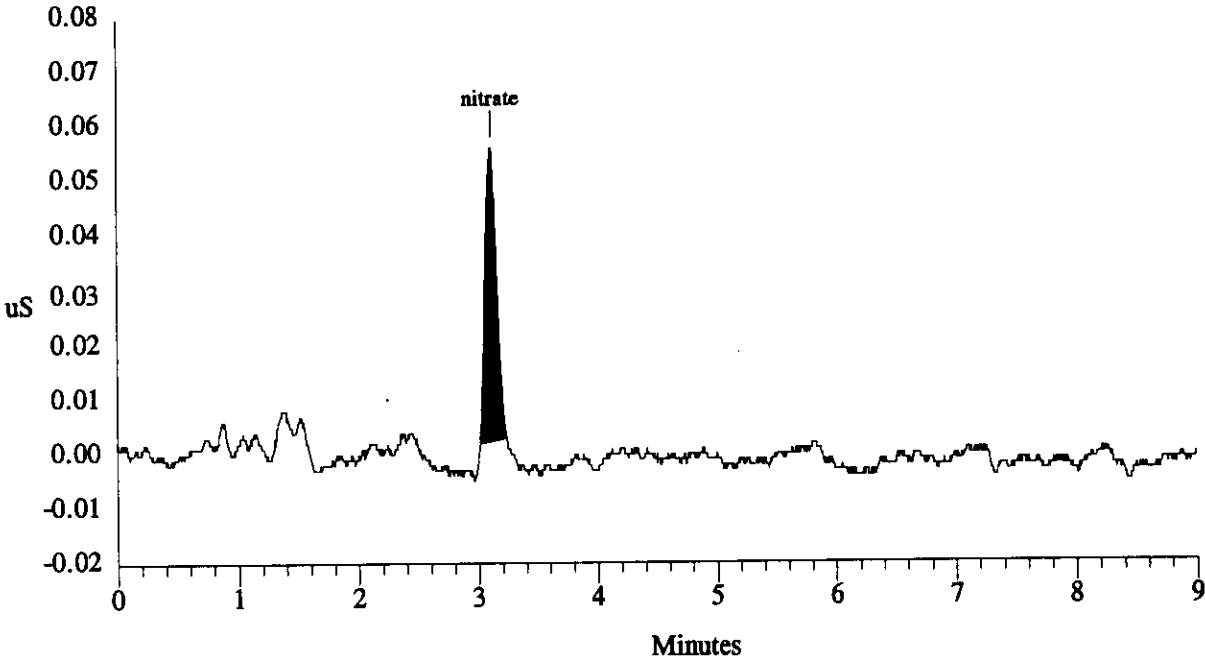
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.11	nitrate	0.068	54	350	1	0.97
Totals			0.068	54	350		

DIRECT ELUENT R/McCown 10/12/95

File: 95101261.D02 Sample: CCB



WHC-SD-WM-DP- 137, REV. 1

```

=====
Sample Name: PREP BLANK                      Date: 10/12/1995 02:19:24
Data File  : C:\DX\DATA\95101261.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

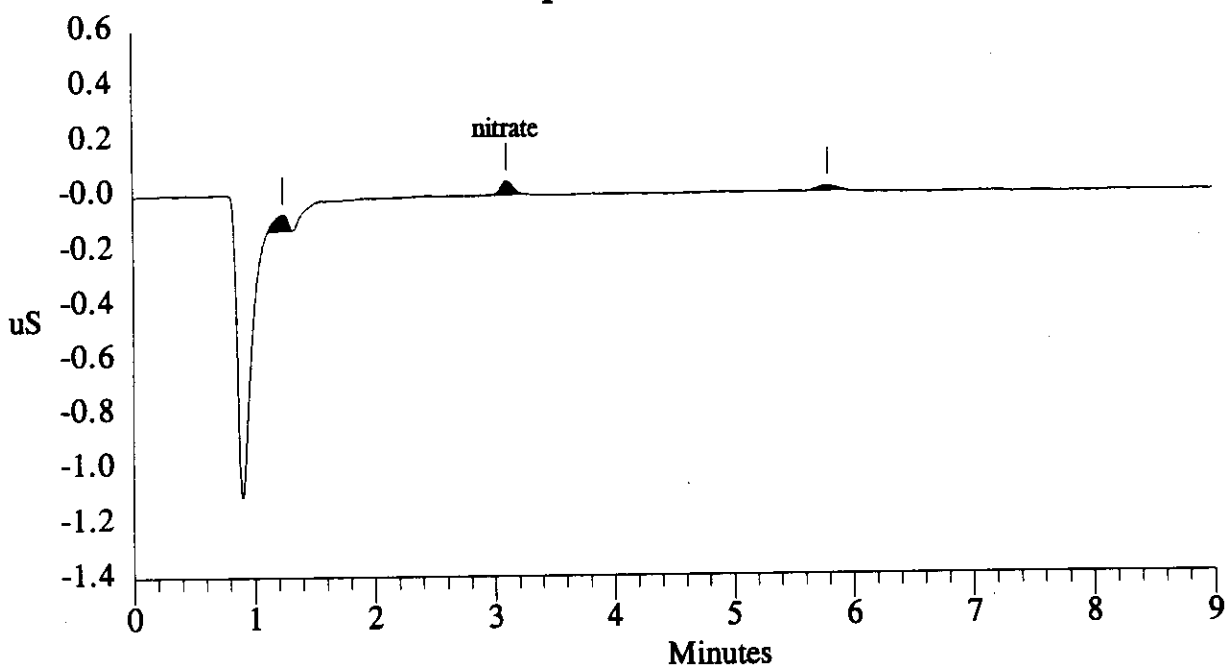
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.24		0.000	58	449	1	
2	3.11	nitrate	0.065	49	332	1	0.97
Totals			0.065	107	781		

DIRECT R McCann 10/12/95
File: 95101261.D03 Sample: PREP BLANK



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001848 SAMPLE                      Date: 10/12/1995 02:32:29
Data File  : C:\DX\DATA\95101261.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    2700   5Hz   0.00   9.00         200

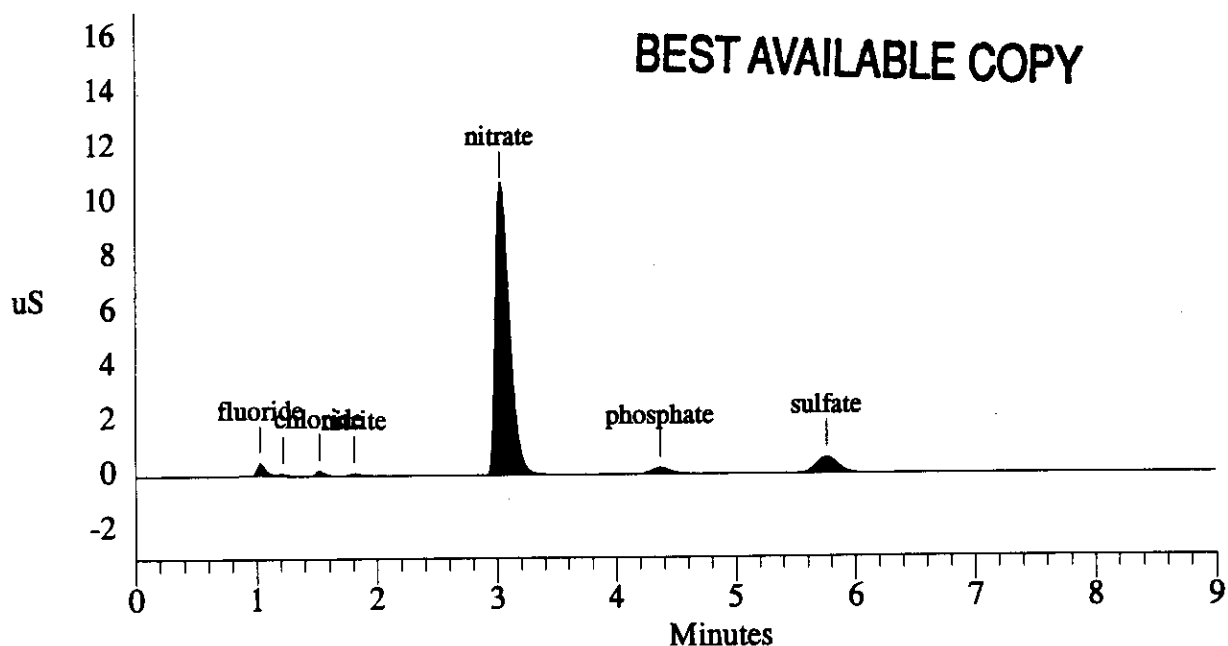
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.03	fluoride	17.740	452	2182	2	-2.83
2	1.22		0.000	72	344	2	
3	1.52	chloride	8.601	188	981	1	0.00
4	1.81	nitrite	12.433	99	578	1	-0.55
5	3.03	nitrate	1530.588	10511	87094	1	-1.62
6	4.37	phosphate	115.136	237	2647	1	-2.46
7	5.76	sulfate	108.740	587	7497	1	-2.54
Totals			1793.239	12147	101324		

-100mL -10mL *R. McCoun 10/12/95*

File: 95101261.D04 Sample: S95T001848 SAMPLE



WHC-SD-WM-DP- 137, REV. 1

Sample Name: S95T001848 SAMPLE Date: 10/12/1995 03:26:07
 Data File : C:\DX\DATA\95101261.D05
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

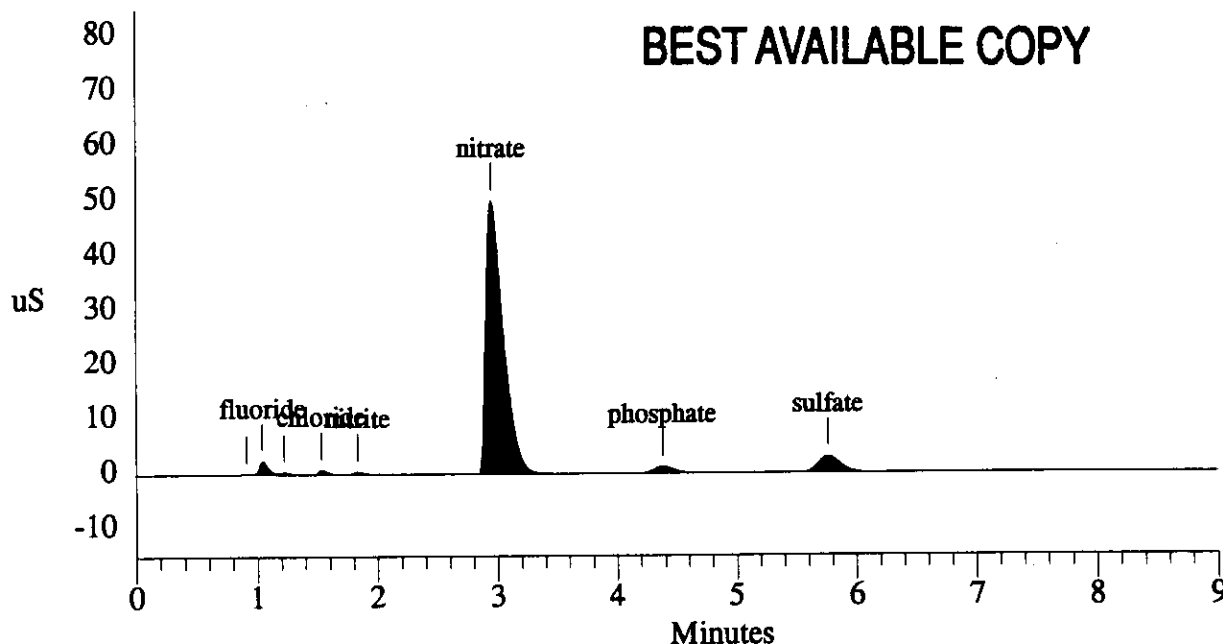
***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	76	281	2	
2	1.04	fluoride	20.402	2385	12529	3	-1.89
3	1.22		0.000	392	2066	4	
4	1.53	chloride	10.192	853	4674	1	0.66
5	1.83	nitrite	10.063	482	2863	1	0.55
6	2.95	nitrate	1413.320	50005	503013	1	-4.22
7	4.38	phosphate	118.600	1252	14378	1	-2.23
8	5.76	sulfate	111.910	2995	38417	1	-2.54

Totals 1684.488 58440 578220

.500ml - 10ml *R/W/LoCoun* 10/12/95

File: 95101261.D05 Sample: S95T001848 SAMPLE



WPC-SD-WM-DP-127, REV. 1

```

=====
Sample Name: S95T001848 DUPLICATE                      Date: 10/12/1995 03:42:52
Data File  : C:\DX\DATA\95101261.D06
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 6                      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	fluoride	13.040	318	1594	2	-1.89
2	1.22		0.000	71	335	2	
3	1.54	chloride	9.260	201	1041	1	1.32
4	1.83	nitrite	12.209	100	564	1	0.55
5	3.05	nitrate	1572.868	11007	89626	1	-0.97
6	4.39	phosphate	108.066	221	2468	1	-2.01
7	5.78	sulfate	98.455	529	6767	1	-2.20

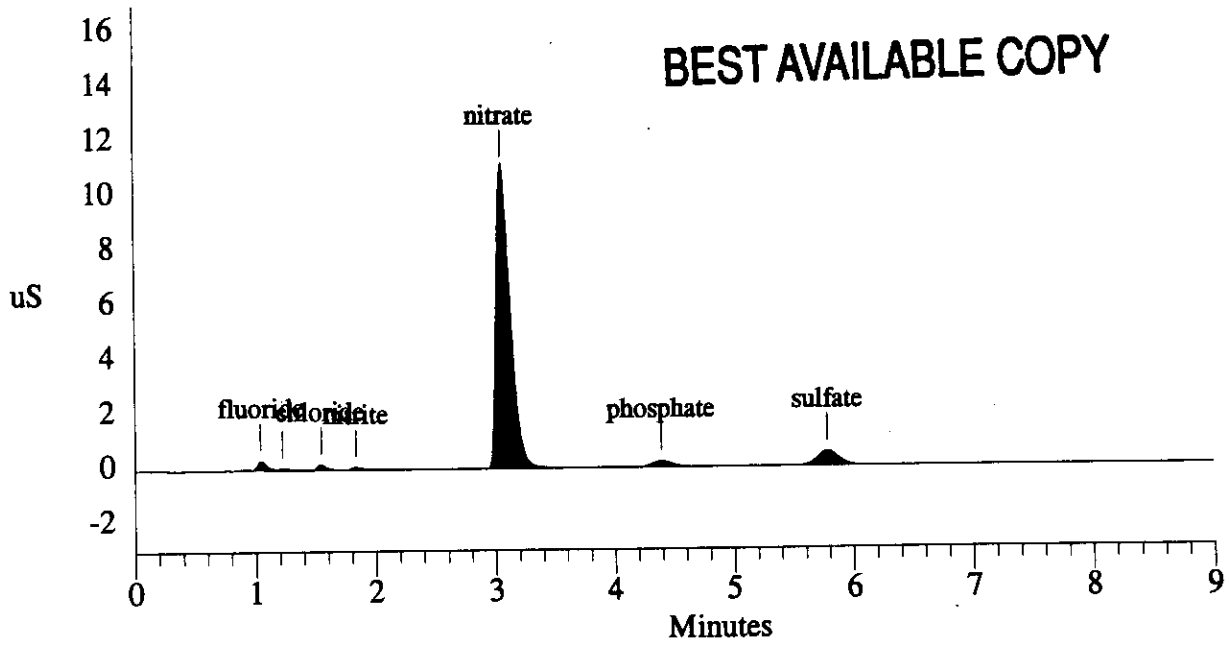
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-----
Totals          1813.899          12447          102395
-----

```

.100mL -10mL R/McCown 10/12/95

File: 95101261.D06 Sample: S95T001848 DUPLICATE



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001848 DUPLICATE                      Date: 10/12/1995 04:00:06
Data File  : C:\DX\DATA\95101261.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7                      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700  5Hz   0.00  9.00          200
-----

```

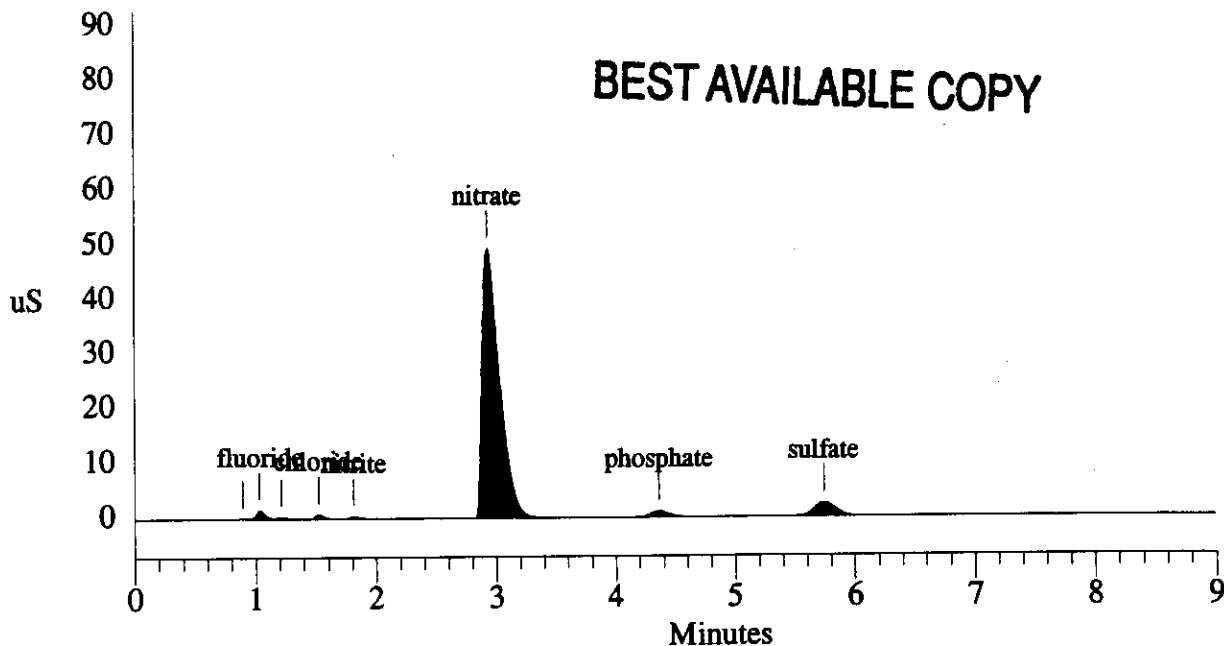
***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	73	280	2	
2	1.03	fluoride	13.180	1587	7992	2	-2.83
3	1.21		0.000	404	2039	2	
4	1.52	chloride	10.010	878	4593	1	0.00
5	1.81	nitrite	9.728	473	2760	1	-0.55
6	2.93	nitrate	1401.530	49531	496473	1	-4.87
7	4.36	phosphate	108.222	1141	13072	1	-2.68
8	5.74	sulfate	95.811	2558	32780	1	-2.88

Totals 1638.481 56646 559988

.500 mL - 10 mL *RJ McCown 10/12/95*

File: 95101261.D07 Sample: S95T001848 DUPLICATE



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001848 SPIKE
 Data File : C:\DX\DATA\95101261.D08
 Method : C:\DX\METHOD\KIT.MET
 \CI Address: 1 System: 1 Inject#: 8
 Analyst :

Date: 10/12/1995 04:16:28

Detector: CDM-1

Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	75.928	1983	9618	1	-2.83
3	1.52	chloride	91.358	1630	8603	1	0.00
4	1.81	nitrite	549.167	5776	35183	1	-0.55
5	2.68	bromide	587.008	3814	25212	1	-0.74
6	3.02	nitrate	2203.046	15452	128304	1	-1.95
7	4.35	phosphate	666.100	1471	16897	1	-2.90
8	5.73	sulfate	761.596	4293	54841	1	-3.05
9	7.51	oxalate	563.448	1654	27596	1	-3.47

Totals

5497.651

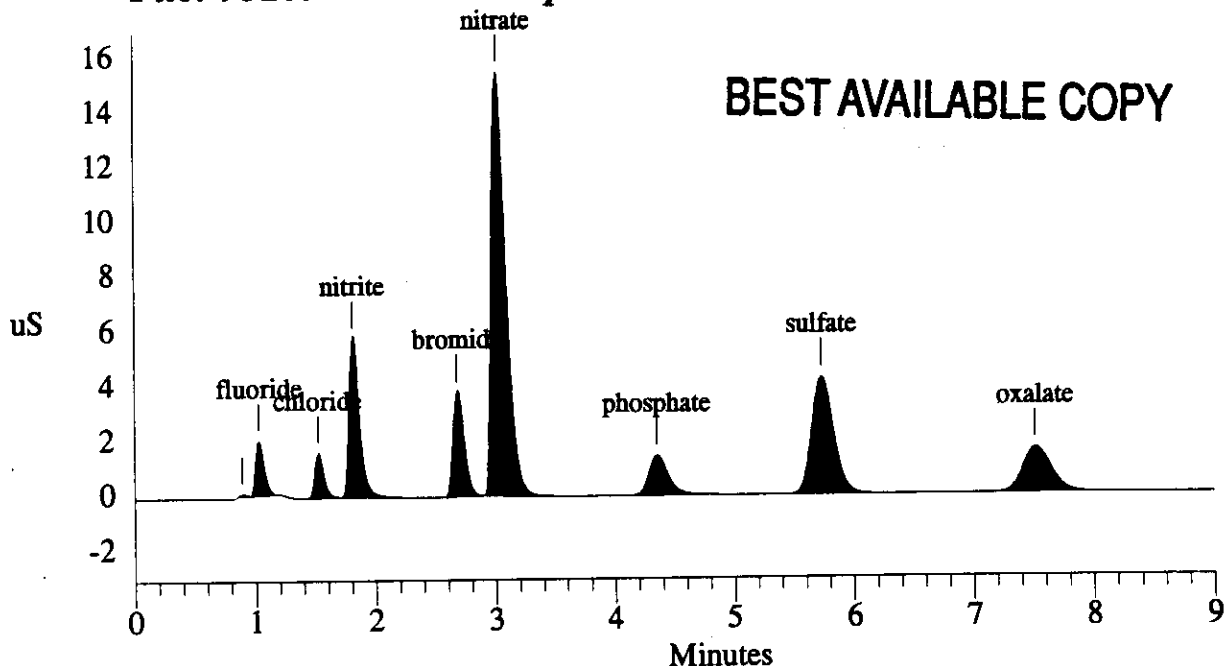
36074

306254

• 100 ML < 9.9 ML ELUENT
 • 100 ML STD # 109 N9A AS SPIKE

B. McCown 10/12/95

File: 95101261.D08 Sample: S95T001848 SPIKE



WHC-SD-WM-DP-137, REV. 1

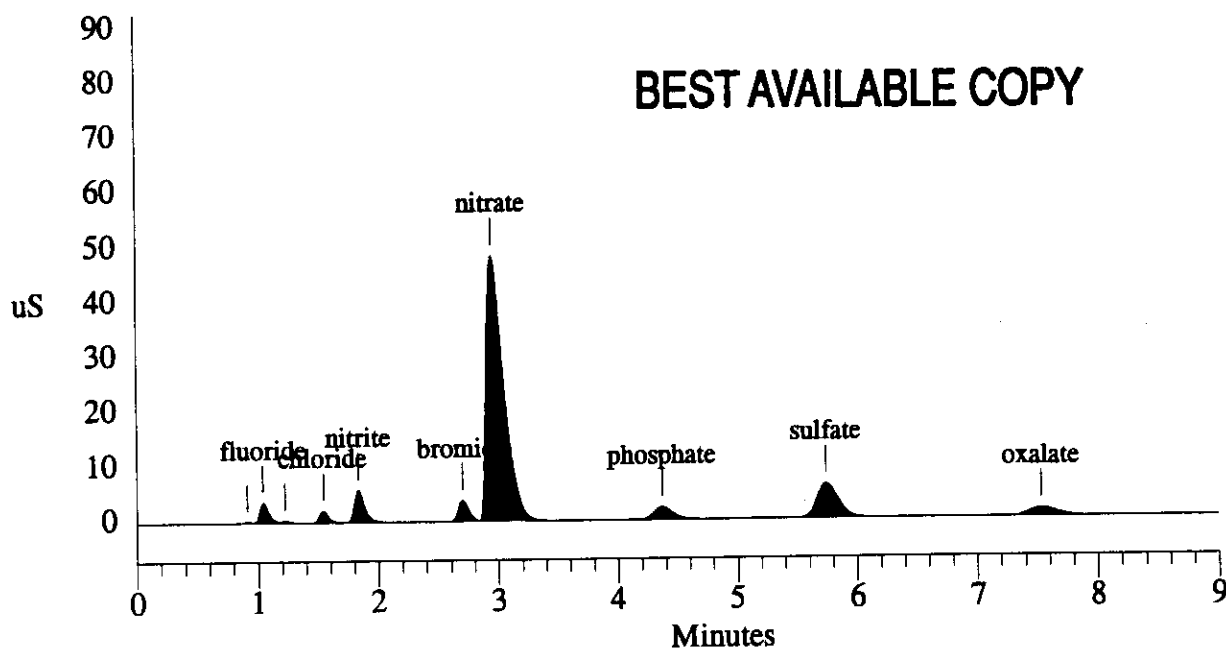
Sample Name: S95T001848 SPIKE Date: 10/12/1995 04:26:55
 Data File : C:\DX\DATA\95101261.D09
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	101	361	2	
2	1.04	fluoride	30.466	3682	19034	3	-1.89
3	1.22		0.000	348	1850	4	
4	1.54	chloride	25.508	2173	11554	1	1.32
5	1.83	nitrite	116.323	5959	35858	1	0.55
6	2.70	bromide	110.169	3804	22669	1	0.00
7	2.95	nitrate	1377.018	48447	483172	1	-4.22
8	4.37	phosphate	217.621	2372	27112	1	-2.46
9	5.74	sulfate	232.076	6423	81433	1	-2.88
10	7.53	oxalate	113.400	1598	26679	1	-3.21

Totals 2222.581 74906 709722
 .500ML — 9.9 ML ELUENT
 .100 ML STD # 109N9A As SPIKE R. McCown 10/12/95
 File: 95101261.D09 Sample: S95T001848 SPIKE



WHC-SD-WM-DP-137, REV. 1

Sample Name: S95T001849 SAMPLE
 Data File : C:\DX\DATA\95101261.D10
 Method : C:\DX\METHOD\KIT.MET
 VCI Address: 1 System: 1 Inject#: 10
 Analyst : Column: AG4A/AS4A anion column/SRS

Date: 10/12/1995 04:39:23

Detector: CDM-1

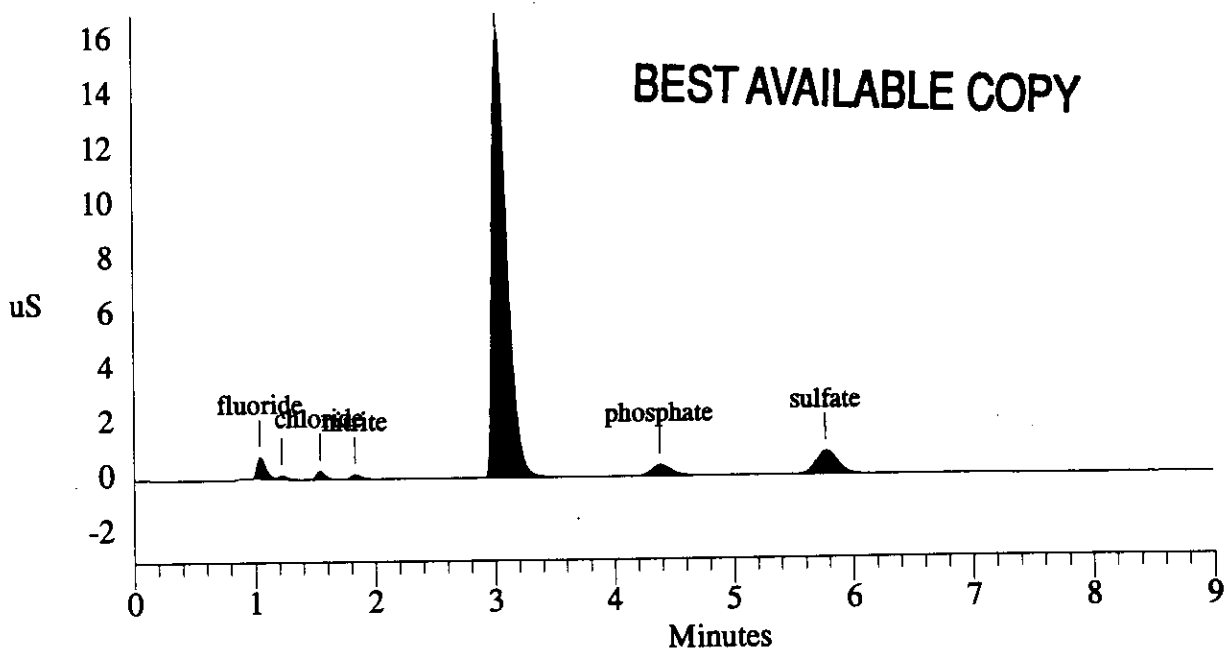
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	fluoride	30.364	763	3772	2	-1.89
2	1.22		0.000	119	574	2	
3	1.54	chloride	15.000	300	1562	1	1.32
4	1.83	nitrite	19.123	167	1003	1	0.55
5	3.03	nitrate	2340.997	16070	137018	1	-1.62
6	4.38	phosphate	187.757	391	4491	1	-2.23
7	5.77	sulfate	155.244	842	10805	1	-2.37
Totals			2748.484	18651	159225		

• 100mL - 10mL *RL McCown* 10/12/95

File: 95101261.D10 Sample: S95T001849 SAMPLE



WHC-SD-WM-DP-137, REV. 1

=====

Sample Name: S95T001849 SAMPLE	Date: 10/12/1995 05:01:19
Data File : C:\DX\DATA\95101261.D11	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 11	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS

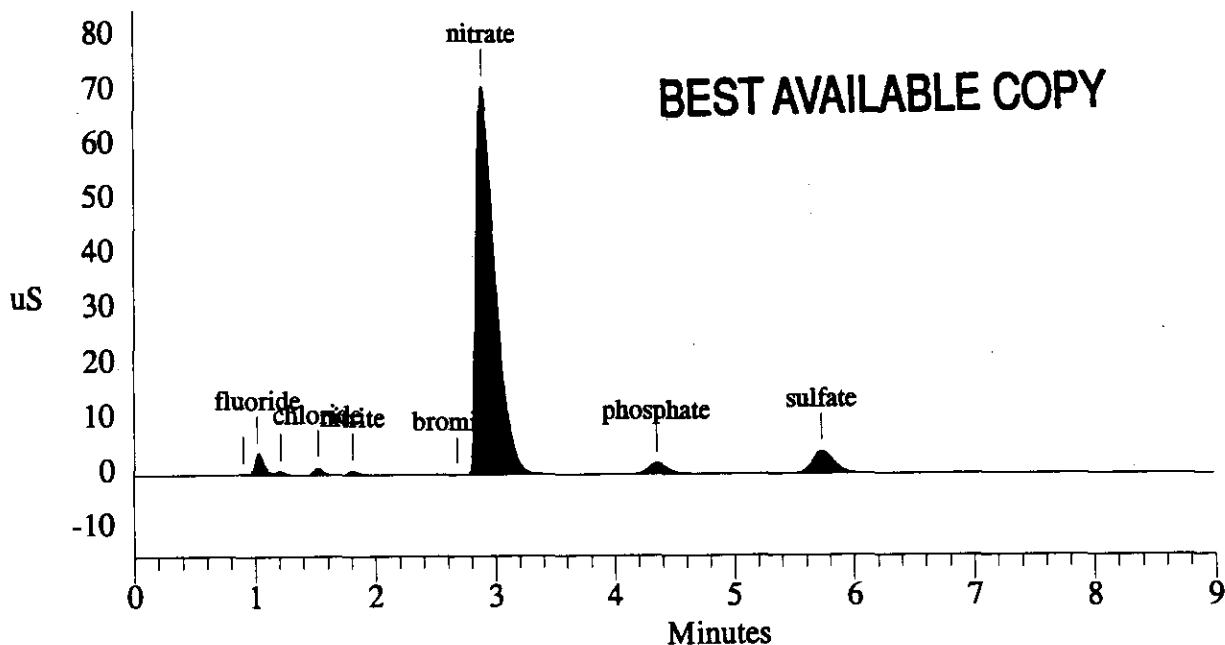
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-----	-----	-----	-----	-----	-----	-----	-----	-----
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
-----	-----	-----	-----	-----	-----	-----	-----
1	0.90		0.000	116	402	2	
2	1.02	fluoride	32.887	3850	20633	3	-3.77
3	1.21		0.000	629	3120	4	
4	1.52	chloride	15.824	1374	7180	1	0.00
5	1.81	nitrite	15.777	785	4612	1	-0.55
6	2.68	bromide	4.216	80	406	1	-0.74
7	2.89	nitrate	1749.597	70945	774399	1	-6.17
8	4.35	phosphate	191.202	2055	23665	1	-2.90
9	5.73	sulfate	153.497	4163	53113	1	-3.05
Totals			2162.999	83997	887530		

.500mL - 10mL *RJ McCown* 10/12/95
File: 95101261.D11 Sample: S95T001849 SAMPLE



WHO-SD-WM-DP-137, REV. 1

Sample Name: S95T001849 DUPLICATE Date: 10/12/1995 05:15:49
 Data File : C:\DX\DATA\95101261.D12
 Method : C:\DX\METHOD\KIT.MET
 \CI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

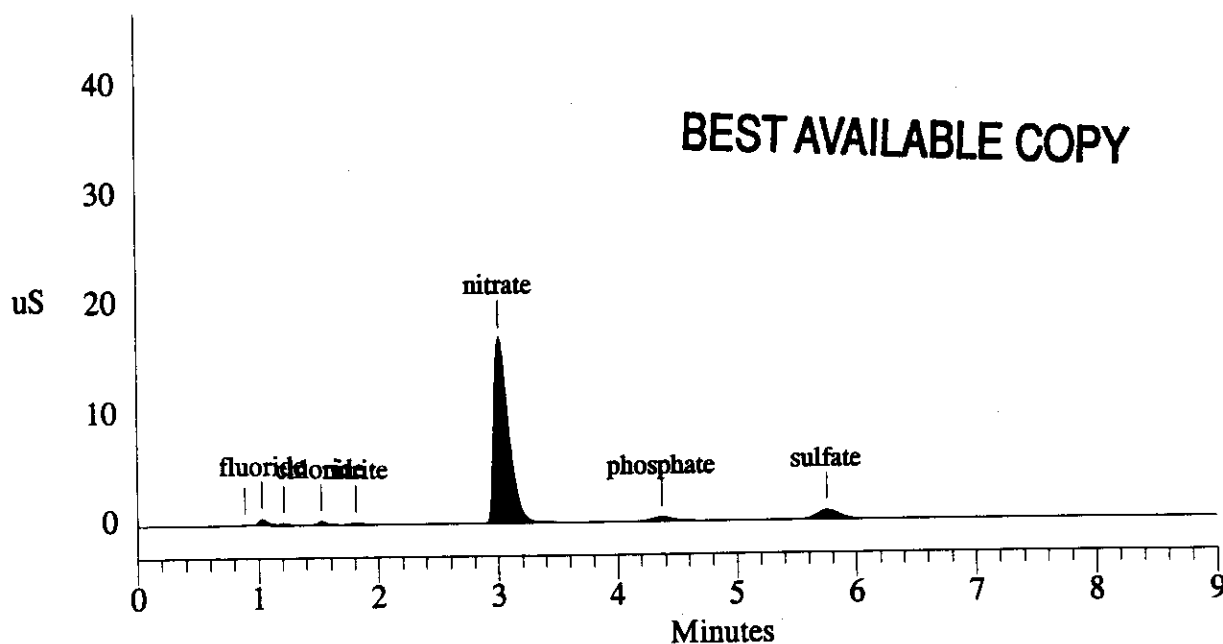
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	23.340	563	2886	2	-2.83
3	1.21		0.000	134	658	2	
4	1.52	chloride	15.409	312	1599	1	0.00
5	1.81	nitrite	19.142	171	1004	1	-0.55
6	3.01	nitrate	2418.862	16904	141979	1	-2.27
7	4.37	phosphate	174.562	366	4155	1	-2.46
8	5.75	sulfate	158.266	859	11020	1	-2.71
Totals			2809.582	19310	163301		

• 100 mL - 10 mL *R. McCown* 10/12/95

File: 95101261.D12 Sample: S95T001849 DUPLICATE



WHC-SD-WM-DP-137, REV. 1

=====

Sample Name: S95T001849 DUPLICATE	Date: 10/12/1995 05:26:46
Data File : C:\DX\DATA\95101261.D13	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 13	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column/SRS

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-----	-----	-----	-----	-----	-----	-----	-----	-----
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

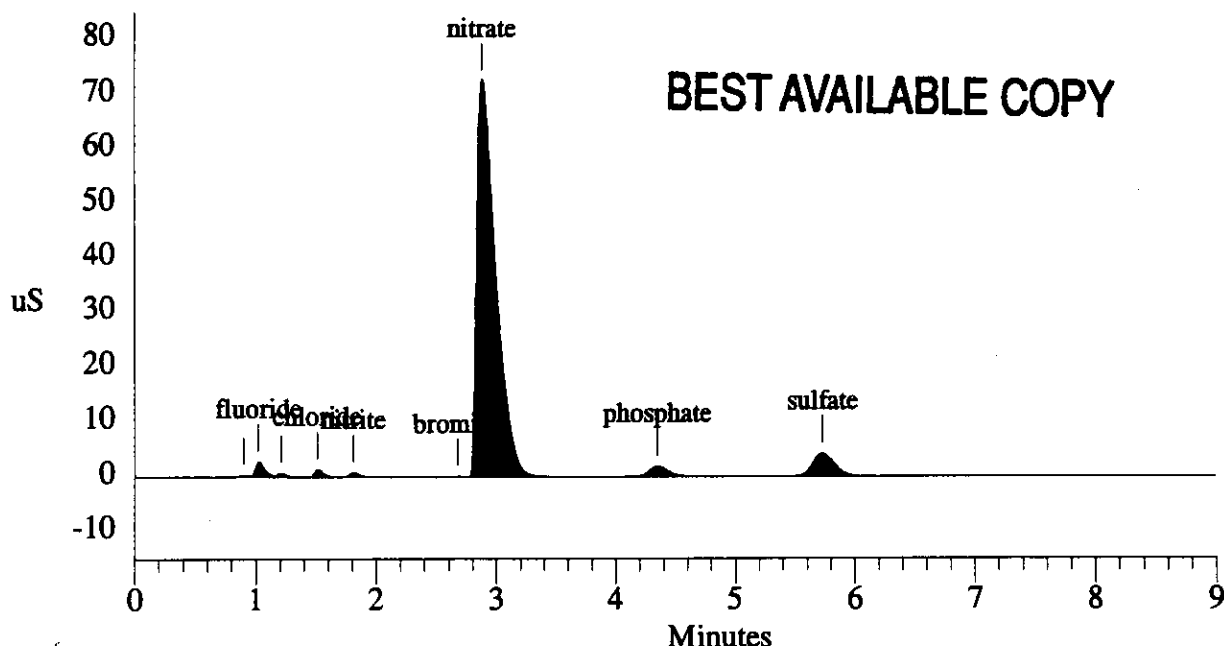
Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta

1	0.90		0.000	136	502	2	
2	1.02	fluoride	22.514	2632	13876	2	-3.77
3	1.21		0.000	678	3417	2	
4	1.51	chloride	16.403	1372	7439	1	-0.66
5	1.81	nitrite	16.149	804	4725	1	-0.55
6	2.68	bromide	4.249	84	413	1	-0.74
7	2.88	nitrate	1765.547	72374	799398	1	-6.49
8	4.35	phosphate	178.444	1909	22014	1	-2.90
9	5.73	sulfate	156.185	4226	54070	1	-3.05

Totals			2159.492	84215	905855		

.500 mL - 10 mL *Bl. McCoun* 10/12/95

File: 95101261.D13 Sample: S95T001849 DUPLICATE



WHC-SD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2844

Analyst: EE

Instrument: IC01 IC01

Book # 109N9-A
109N9-A

EE 10-12-95

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			gIC-QC F-QC	QC		<.062	N/A	ug/mL
		1 CCB			gIC-QC CL-QC	QC		<.083	N/A	ug/mL
		1 CCB			gIC-QC NO2-QC	QC		<.547	N/A	ug/mL
		1 CCB			gIC-QC BR-QC	QC		<.150	N/A	ug/mL
		1 CCB			gIC-QC NO3-QC	QC		<.699	N/A	ug/mL
		1 CCB			gIC-QC PO4-QC	QC		<.596	N/A	ug/mL
		1 CCB			gIC-QC SO4-QC	QC		<.678	N/A	ug/mL
		1 CCB			gIC-QC OXALATQC	QC		<.496	N/A	ug/mL
		2 CCV			gIC-QC F-QC	QC		60.03	N/A	ug/mL
		2 CCV			gIC-QC CL-QC	QC		80.15	N/A	ug/mL
		2 CCV			gIC-QC NO2-QC	QC		537.1	N/A	ug/mL
		2 CCV			gIC-QC BR-QC	QC		591.5	N/A	ug/mL
		2 CCV			gIC-QC NO3-QC	QC		632	N/A	ug/mL
		2 CCV			gIC-QC PO4-QC	QC		559.7	N/A	ug/mL
		2 CCV			gIC-QC SO4-QC	QC		668.2	N/A	ug/mL
		2 CCV			gIC-QC OXALATQC	QC		578.5	N/A	ug/mL
		3 BLNK-PREP			gIC-01 F-02	SOLID		<.062	N/A	ug/g
		3 BLNK-PREP			gIC-01 CL-02	SOLID		<.083	N/A	ug/g
			595T0001850		Sample 10.4226	dup 10.4370				
Data Entry Comments: 595T0001851 10.3096 10.3460										

LMCS 109N9-A .1mL - 10mL

SPIKE 109N9-A .1mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2844

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3 BLNK-PREP			01C-01 NO2-02	SOLID		6.547	N/A	ug/g
		3 BLNK-PREP			01C-01 BR-02	SOLID		6.150	N/A	ug/g
		3 BLNK-PREP			01C-01 NO3-02	SOLID		6.699	N/A	ug/g
		3 BLNK-PREP			01C-01 PO4-02	SOLID		6.596	N/A	ug/g
		3 BLNK-PREP			01C-01 SO4-02	SOLID		6.678	N/A	ug/g
		3 BLNK-PREP			01C-01 OXALATE2	SOLID		6.496	N/A	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 F-02	SOLID	N/A	3.30e3	1.25e2	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 CL-02	SOLID	N/A	1.70e3	1.67e2	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 NO2-02	SOLID	N/A	1.72e3	1.08e3	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 BR-02	SOLID	N/A	6.14e2	3.02e2	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 NO3-02	SOLID	N/A	2.71e5	6.77e3	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 PO4-02	SOLID	N/A	2.22e4	1.20e3	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 SO4-02	SOLID	N/A	1.67e4	1.37e3	ug/g
95000088	B-104	4 SAMPLE	S95T001850	0 W	01C-01 OXALATE2	SOLID	N/A	9.99e2	9.99e2	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 F-02	SOLID	3.30e3	2.62e3	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 CL-02	SOLID	1.70e3	1.73e3	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 NO2-02	SOLID	1.72e3	1.72e3	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 BR-02	SOLID	1.14e2	5.83e2	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 NO3-02	SOLID	2.71e5	2.81e5	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 PO4-02	SOLID	2.22e4	2.13e4	N/A	ug/g
95000088	B-104	5 DUP	S95T001850	0 W	01C-01 SO4-02	SOLID	1.67e4	1.72e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

303

LABCORE Data Entry Template for Worklist#

2844

WJ	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001850	0 W	QIC-01 OXALATE2	SOLID	4999e2	4999e2	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 F-02	SOLID		115.5	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 CL-02	SOLID		111.5	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 NO2-02	SOLID		104.8	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 BR-02	SOLID		75.9	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 NO3-02	SOLID		102.9	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 PO4-02	SOLID		110.9	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 SO4-02	SOLID		116.6	N/A	ug/g
95000088	B-104	6 SPK	S95T001850	0 W	QIC-01 OXALATE2	SOLID		110.9	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 F-02	SOLID	N/A	2.47e3	1.26e2	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 CL-02	SOLID	N/A	1.85e3	1.69e2	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 NO2-02	SOLID	N/A	1.83e3	1.09e3	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 BR-02	SOLID	N/A	3.06e2	3.06e2	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 NO3-02	SOLID	N/A	2.88e5	6.85e3	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 PO4-02	SOLID	N/A	2.06e4	1.21e3	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 SO4-02	SOLID	N/A	1.78e4	1.38e3	ug/g
95000088	B-104	7 SAMPLE	S95T001851	0 W	QIC-01 OXALATE2	SOLID	N/A	1.01e3	1.01e3	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	QIC-01 F-02	SOLID	2.47e3	2.72e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	QIC-01 CL-02	SOLID	1.85e3	2.01e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	QIC-01 NO2-02	SOLID	1.83e3	1.99e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	QIC-01 BR-02	SOLID	3.06e2	3.06e2	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	QIC-01 NO3-02	SOLID	2.88e5	2.84e5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2844

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001851	0 W	2IC-01 PO4-02	SOLID	2.06e4	2.23e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	2IC-01 SO4-02	SOLID	1.78e4	1.94e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001851	0 W	2IC-01 OXALATE2	SOLID	<1.01e3	<1.01e3	N/A	ug/g

Final page for worklist #

2844

E.H. Cohn 10-12-95
Analyst Signature Date

Analyst Signature Date

Entered & Verified 10/17/95 Jan W. Luge

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001850 & S95T001851

TEST CODE: @IC-01

INSTRUMENT: IC03

WORK LIST #: 2844

BATCH ID:

ANALYST:

Ed Colvin

ANALYSIS DATE:

10/12/95

SAMPLE POINT:

B-104

SAMPLE PREP:

water digest

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9a		101.7%	101.5%	100.8%	102.9%	102.5%	105.9%	102.9%	110.0%
S95T001850		3.30E+03	1.70E+03	1.72E+03	2.71E+05	2.22E+04	1.67E+04	6.14E+02	<999.42
S95T001850dup		2.62E+03	1.73E+03	1.72E+03	2.81E+05	2.13E+04	1.72E+04	5.83E+02	<997.99
Duplicate 1 RPD		22.9%	1.8%	0.0%	3.6%	4.1%	3.1%	5.2%	N/A
S95T001851		2.47E+03	1.85E+03	1.83E+03	2.88E+05	2.06E+04	1.78E+04	<305.71	<1010.87
S95T001851dup		2.72E+03	2.01E+03	1.99E+03	2.84E+05	2.23E+04	1.94E+04	<304.47	<1006.77
Duplicate 2 RPD		9.6%	8.4%	8.3%	1.3%	7.7%	8.4%	N/A	N/A
S95T001850spk		115.5%	111.5%	104.8%	102.9%	110.9%	116.6%	75.9%	110.9%

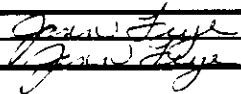
NARRATIVE:**Analyst Comments:**

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Chemist Comments:

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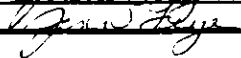
Form Completed By:



Date:

10/16/95

Chemist Approval:



Date:

10/16/95

311

LAB LEADER INFO	
Method:	LA-533-105 d-1
Matrix:	solid
Test Code:	QC-01
Work List #:	2844
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N8A
Spike Sample #:	1
Prepared By: Jann Frye	
Prepared Date: 10/16/95	
Chemist: Jann Frye	
Analyst: Ed Colvin	
Analysis Date: 10/12/95	
Time Complete:	
Instrument Code: IC03	
Rerun:	
Sample Prep: water digest	
Sample Point: B-104	
Sample Type	
STANDARD	109N8a
SAMPLE 1	S95T001850
DUPLICATE 1	S95T001850dup
SAMPLE 2	S95T001851
DUPLICATE 2	S95T001851dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001850spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.063	<.647	<.699	<.696	<.678	<.160	<.496
Standard Data (µg/mL)	60.03	60.16	537.1	632	589.7	688.2	691.6	678.6
Sample 1 Data (µg/mL)	3.44E+01	1.77E+01	1.79E+01	2.82E+03	2.32E+02	1.74E+02	6.40E+00	<.496
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21
Sample 1 Prep DF	10.422	10.422	10.422	10.422	10.422	10.422	10.422	10.422
Duplicate 1 Data (µg/mL)	2.74E+01	1.80E+01	1.79E+01	2.93E+03	2.23E+02	1.80E+02	6.08E+00	<.496
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 1 Prep DF	10.437	10.437	10.437	10.437	10.437	10.437	10.437	10.437
Sample 2 Data (µg/mL)	2.84E+01	1.90E+01	1.88E+01	2.97E+03	2.12E+02	1.84E+02	<.160	<.496
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21
Sample 2 Prep DF	10.304	10.304	10.304	10.304	10.304	10.304	10.304	10.304
Duplicate 2 Data (µg/mL)	2.81E+01	2.08E+01	2.08E+01	2.94E+03	2.30E+02	2.01E+02	<.160	<.496
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 2 Prep DF	10.346	10.346	10.346	10.346	10.346	10.346	10.346	10.346
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	4.80E+01	3.63E+01	1.30E+02	3.46E+03	3.63E+02	3.21E+02	9.37E+01	1.17E+02
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.60	10.60	10.60	10.10	10.60	10.60	10.60	10.60
Std. Conc. (µg/mL)	59	79	633	614	646	631	676	626
Detection Limit	0.062	0.063	0.634	0.699	0.696	0.678	0.160	0.496
Matrix Detection Limit 1	1.26E+02	1.67E+02	1.68E+03	6.77E+03	1.20E+03	1.37E+03	3.02E+02	9.99E+02
Matrix Detection Limit 2	1.26E+02	1.68E+02	1.09E+03	8.86E+03	1.21E+03	1.38E+03	3.06E+02	1.01E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = [(Spike+Sample)-(Sample)]/(Total Volume)/[(Spike Vol.)/(Spike Std.)/(Sample DF)]*100%

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

Duplicate Relative % Difference = (Sample - Duplicate) / (Sample + Duplicate) / 2 * 100%

Less than Values are Calculated from the Detection Limit/Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	101.7%	101.6%	100.6%	102.9%	102.8%	105.9%	102.9%	110.6%
Sample 1 in µg/g	3.30E+03	1.70E+03	1.72E+03	2.71E+06	2.22E+04	1.67E+04	6.14E+02	<999.42
Duplicate 1 in µg/g	2.62E+03	1.73E+03	1.72E+03	2.91E+06	2.13E+04	1.72E+04	6.83E+02	<997.90
Duplicate 1 RPD	22.9%	1.8%	0.0%	3.6%	4.1%	3.1%	6.2%	N/A
Sample 2 in µg/g	2.47E+03	1.88E+03	1.83E+03	2.88E+06	2.08E+04	1.78E+04	<306.71	<1010.87
Duplicate 2 in µg/g	2.72E+03	2.01E+03	1.99E+03	2.84E+06	2.23E+04	1.94E+04	<304.47	<1006.77
Duplicate 2 RPD	8.6%	8.4%	8.3%	1.3%	7.7%	8.4%	N/A	N/A
Spike % Recovery	118.6%	111.6%	104.6%	102.9%	110.9%	116.6%	78.6%	110.6%

Data Entry by:	<i>Jann Frye</i>	Date: 10/16/95
Approved by:	<i>Jann Frye</i>	Date: 10/16/95

Form DIONEX.WB1 Rev. 1.3

313

Data Reprocessed On 10/12/1995 11:55:17

```

=====
Sample Name: 109N9-A STD .1-10          Date: 10/12/1995 08:57:15
Data File  : C:\DX\DATA\95101201.D03
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 3      Detector: CDM-1
Analyst    : E.H. Pohn Column: AG4A/AS4A anion column
=====

```

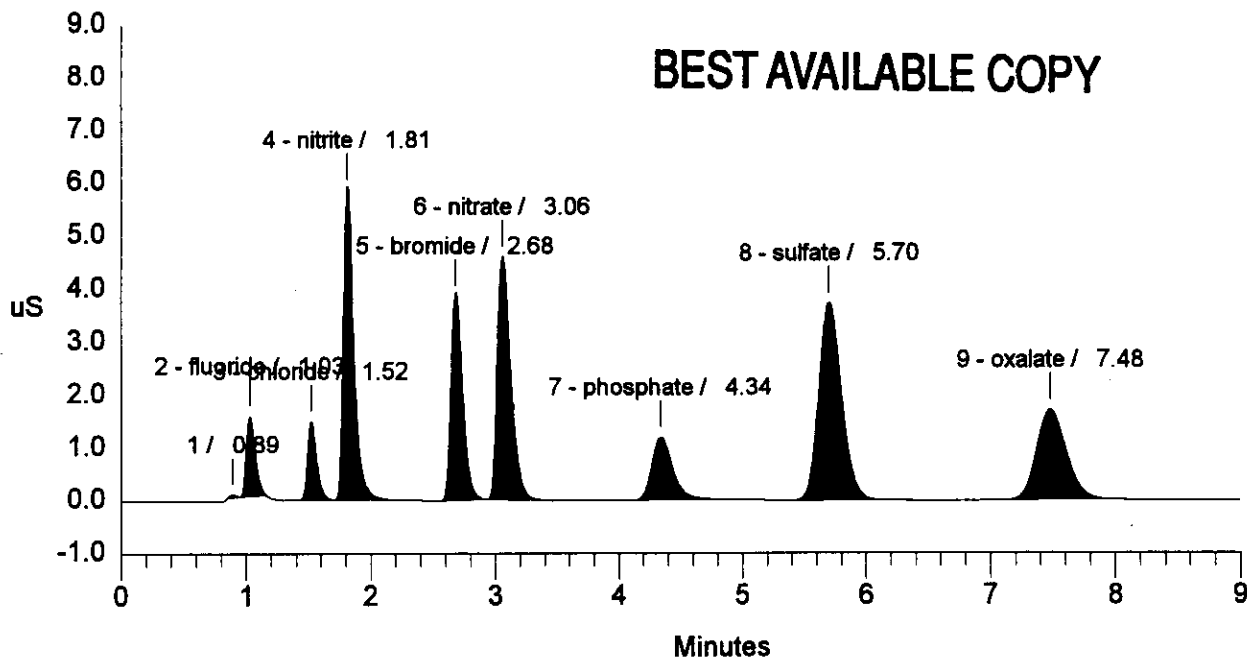
10/12/95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	60.029	1516	7559	1	-2.83
3	1.52	chloride	80.157	1493	7558	1	-1.30
4	1.81	nitrite	537.153	5854	34396	1	-1.09
5	2.68	bromide	591.594	3868	25416	1	-0.37
6	3.06	nitrate	632.010	4591	34937	1	-0.33
7	4.34	phosphate	559.797	1204	14100	1	-1.59
8	5.70	sulfate	668.216	3742	47945	1	-2.23
9	7.48	oxalate	578.599	1712	28367	1	-2.09
Totals			3707.556	23979	200277		

File: 95101201.D03 Sample: 109N9-A STD .1-10



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 313 TO 325.

WHC-SD-WM-DP-137, REV. 1

313

```

=====
Sample Name: PREP BLANK                      Date: 10/12/1995 08:45:32
Data File  : C:\DX\DATA\95101201.D02
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 2          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

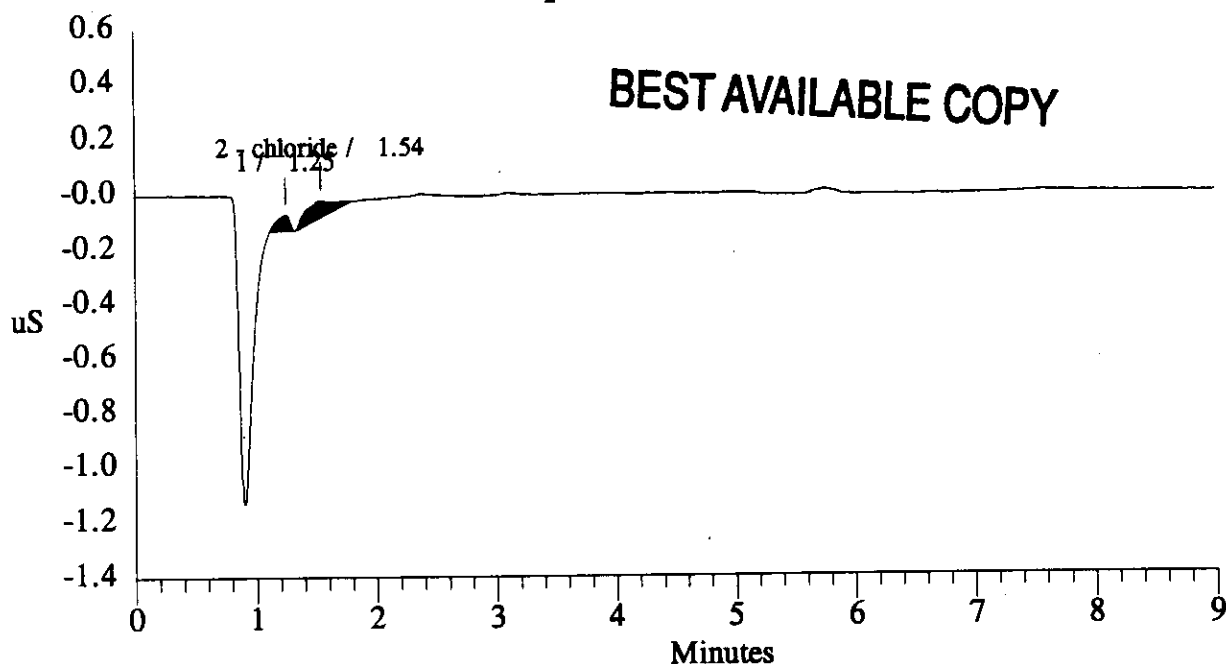
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.25		0.000	60	451	1	
2	1.54	chloride	0.090	61	1028	1	0.00
Totals			0.090	121	1479		

File: 95101201.D02 Sample: PREP BLANK



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: INSTR BLANK                      Date: 10/12/1995 08:33:44
Data File  : C:\DX\DATA\95101201.D01
Method     : C:\DX\METHOD\AUTOMEL.MET
SCI Address: 1 System: 1 Inject#: 1           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

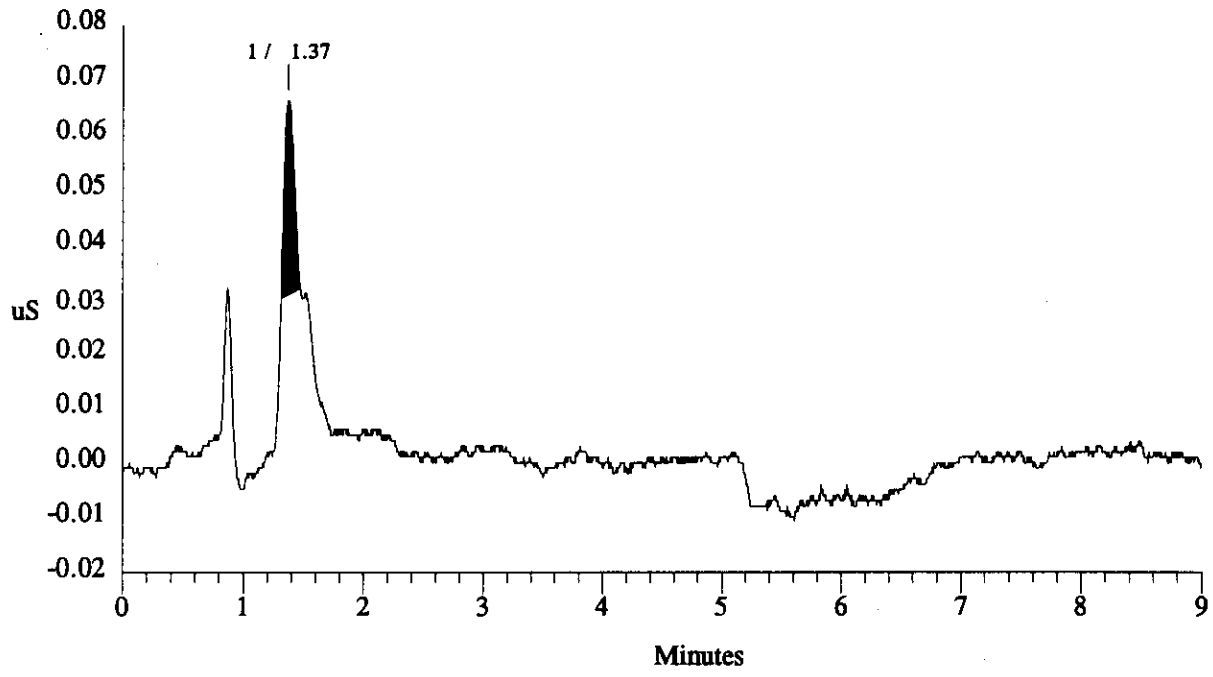
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 2700 5Hz 0.00 9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 95101201.D01 Sample: INSTR BLANK



WHC-OD-WM-DP-137, REV.1

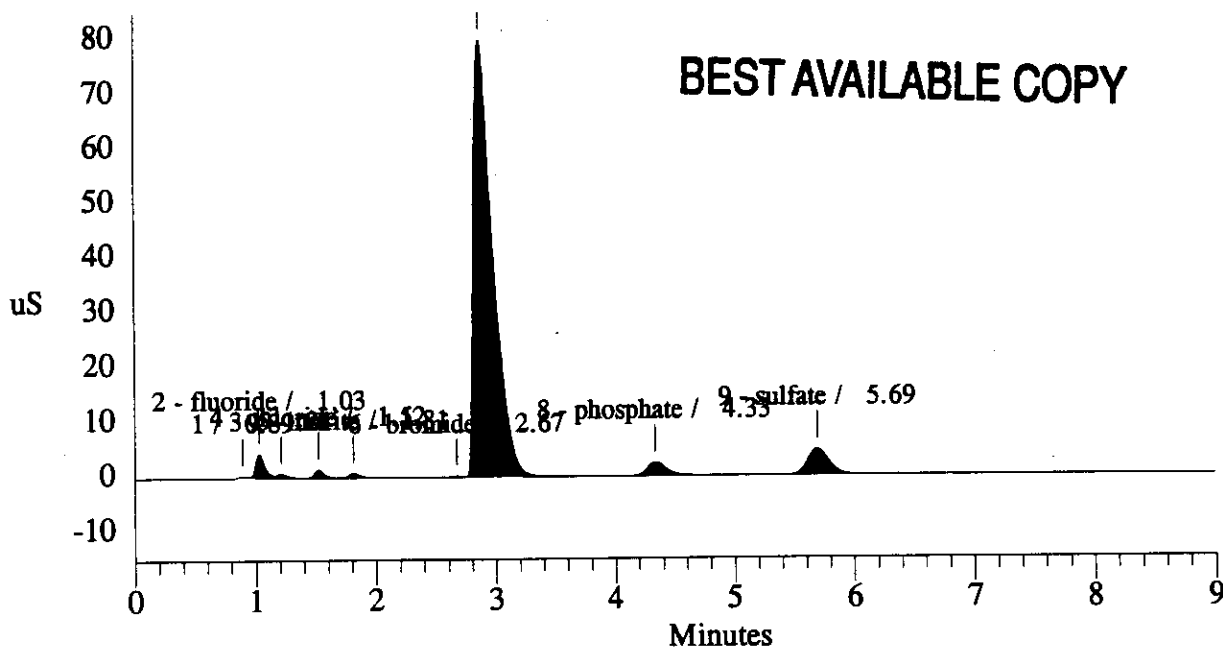
Sample Name: S95T001850 .5-10 Date: 10/12/1995 09:20:44
 Data File : C:\DX\DATA\95101201.D05
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	143	557	2	
2	1.03	fluoride	34.418	4306	21651	3	-2.83
3	1.21		0.000	693	3493	4	
4	1.52	chloride	17.701	1525	8022	1	-1.30
5	1.81	nitrite	17.904	872	5263	1	-1.09
6	2.67	bromide	6.400	176	858	1	-0.74
7	2.87	nitrate	1800.467	79822	882932	1	-6.51
8	4.33	phosphate	231.820	2536	28980	1	-1.81
9	5.69	sulfate	173.921	4756	60403	1	-2.40
Totals			2282.631	94828	1012160		

File: 95101201.D05 Sample: S95T001850 .5-10



WHO-OD-WM-DP-137, REV.1

```

=====
Sample Name: S95T001850 .1-10          Date: 10/12/1995 09:09:00
Data File  : C:\DX\DATA\95101201.D04
Method     : C:\DX\METHOD\AUTOMEL.MET
\CI Address: 1  System: 1  Inject#: 4      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

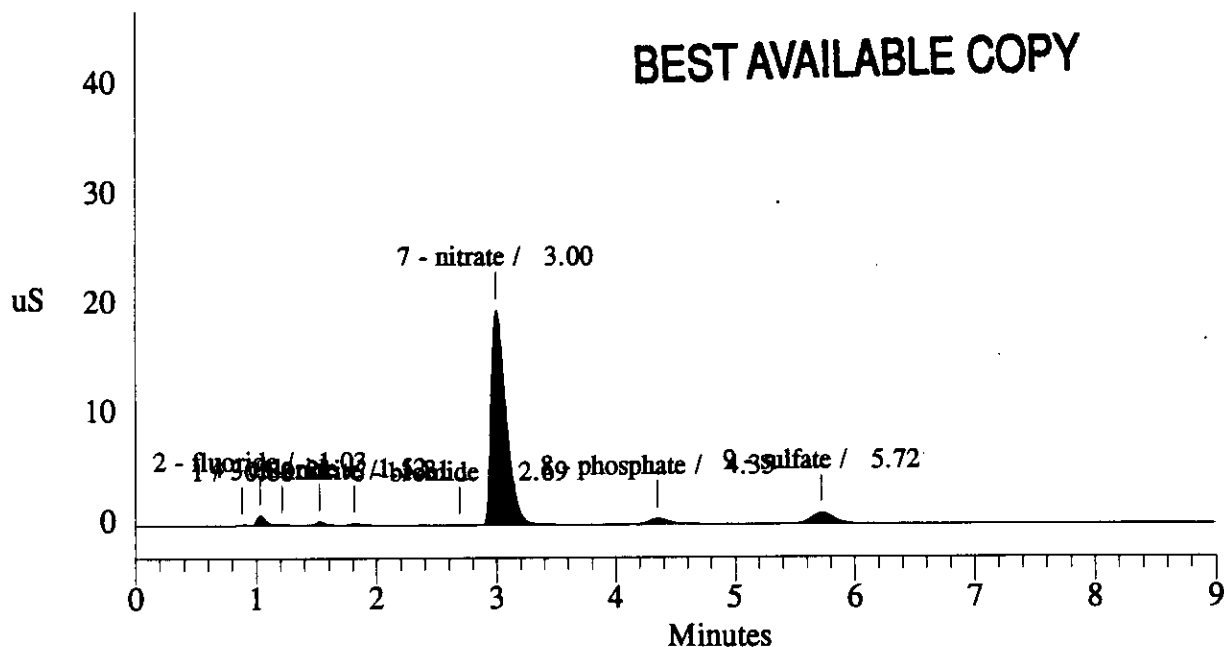
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    2700   5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	54	217	2	
2	1.03	fluoride	36.001	908	4486	2	-2.83
3	1.21		0.000	134	603	2	
4	1.52	chloride	16.825	344	1728	1	-1.30
5	1.81	nitrite	21.063	191	1126	1	-1.09
6	2.69	bromide	16.944	44	263	1	0.00
7	3.00	nitrate	2822.004	19645	168168	1	-2.28
8	4.35	phosphate	239.021	510	5799	1	-1.36
9	5.72	sulfate	185.885	1010	12989	1	-1.89
Totals			3337.743	22839	195379		

File: 95101201.D04 Sample: S95T001850 .1-10



WHC-SD-WM-DP-137, REV. 1

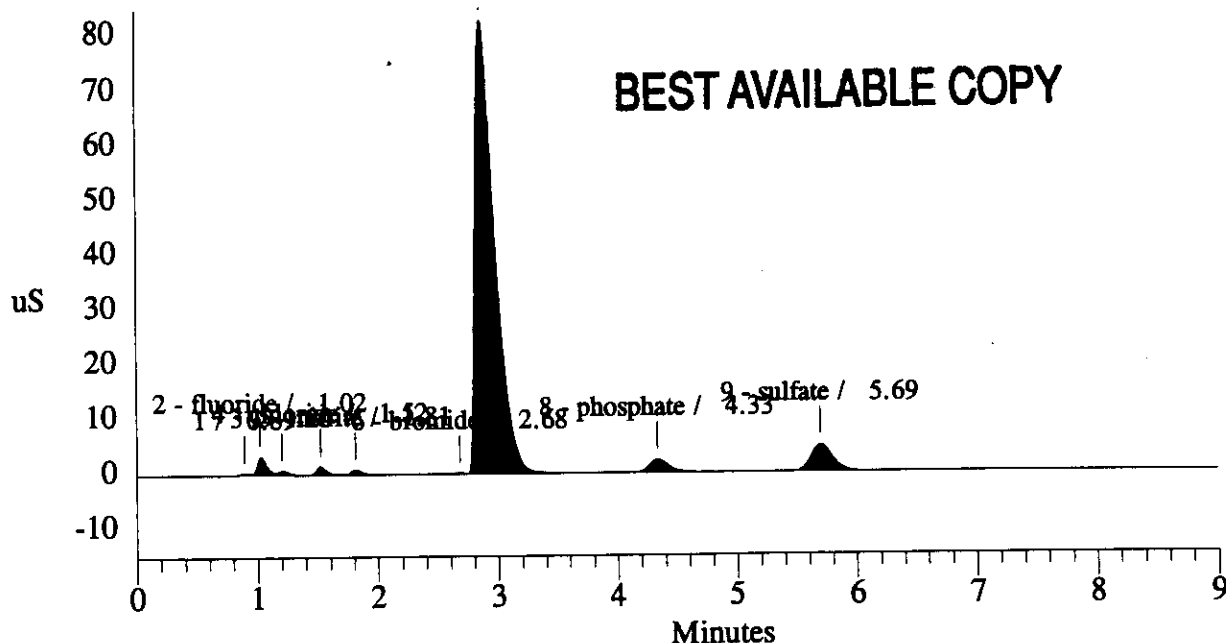
Sample Name: S95T001850 DUP .5-10 Date: 10/12/1995 09:44:11
 Data File : C:\DX\DATA\95101201.D07
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	164	630	2	
2	1.02	fluoride	27.386	3236	17020	2	-3.77
3	1.20		0.000	694	3468	2	
4	1.52	chloride	18.045	1575	8176	1	-1.30
5	1.81	nitrite	17.920	905	5268	1	-1.09
6	2.68	bromide	6.084	175	792	1	-0.37
7	2.86	nitrate	1807.410	82619	925980	1	-6.84
8	4.33	phosphate	222.721	2420	27782	1	-1.81
9	5.69	sulfate	179.666	4889	62462	1	-2.40
Totals			2279.231	96677	1051578		

File: 95101201.D07 Sample: S95T001850 DUP .5-10



WHC-SD-WM-DP-137, REV. 1


```

=====
Sample Name: S95T001850 DUP .1-10          Date: 10/12/1995 09:32:28
Data File  : C:\DX\DATA\95101201.D06
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 6          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

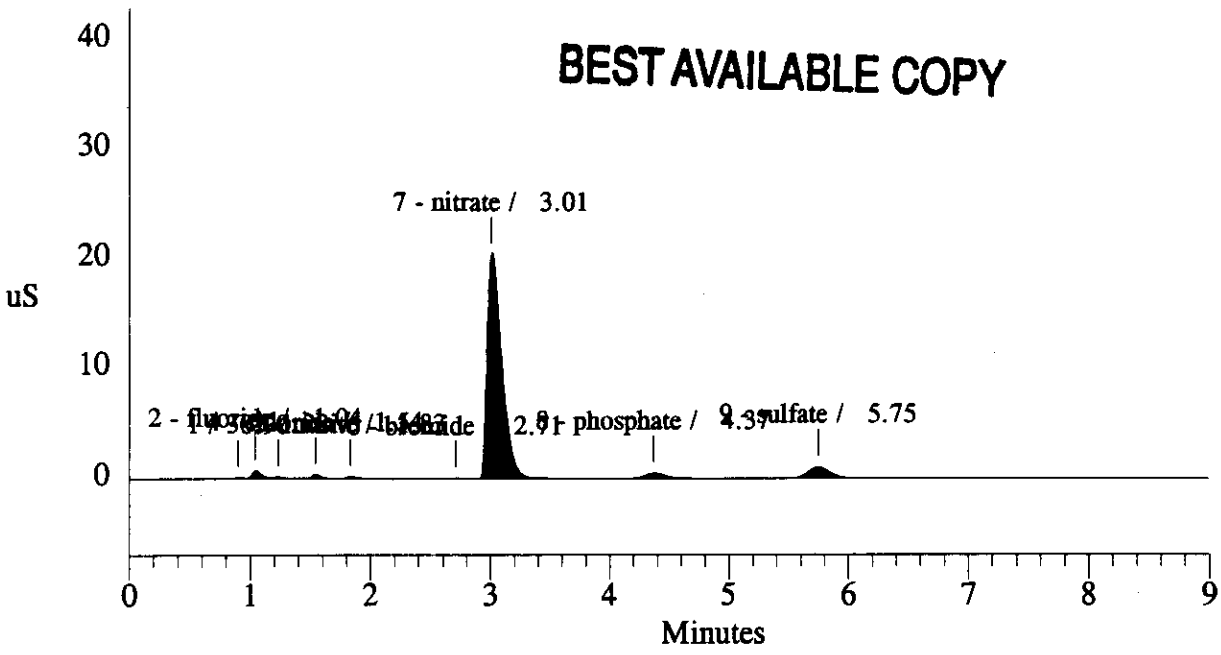
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    2700   5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	55	211	2	
2	1.04	fluoride	28.975	702	3597	2	-1.89
3	1.23		0.000	140	600	2	
4	1.54	chloride	17.792	365	1816	1	0.00
5	1.83	nitrite	21.988	206	1184	1	0.00
6	2.71	bromide	17.297	47	278	1	0.74
7	3.01	nitrate	2930.947	20445	175398	1	-1.95
8	4.37	phosphate	234.075	487	5673	1	-0.91
9	5.75	sulfate	192.849	1052	13486	1	-1.37
Totals			3443.923	23500	202243		

File: 95101201.D06 Sample: S95T001850 DUP .1-10



WHO-SD-WM-OP-132, REV. 1

```

=====
Sample Name: S95T001851 .5-10                      Date: 10/12/1995 10:31:06
Data File  : C:\DX\DATA\95101201.D11
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 11                 Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====

```

```

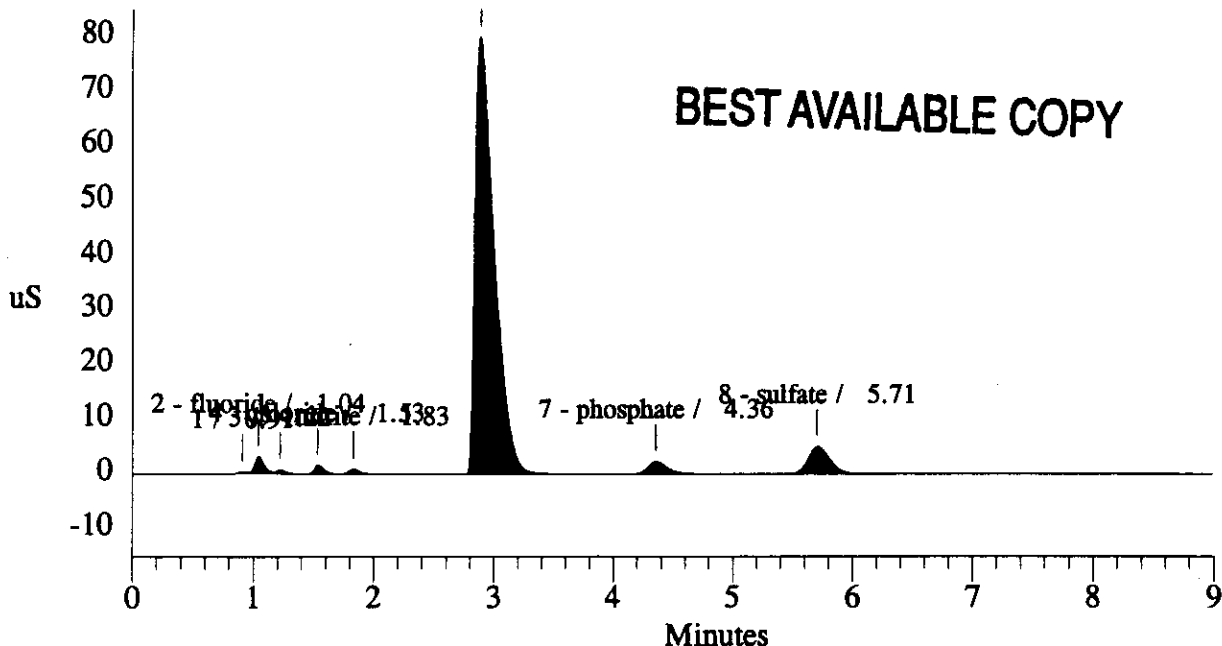
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700  5Hz   0.00  9.00         200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	140	480	2	
2	1.04	fluoride	25.422	3043	15746	2	-1.89
3	1.22		0.000	720	3611	2	
4	1.53	chloride	19.026	1600	8618	1	-0.65
5	1.83	nitrite	18.840	949	5550	1	0.00
6	2.89	nitrate	1800.682	79956	883805	1	-5.86
7	4.36	phosphate	212.449	2321	26435	1	-1.13
8	5.71	sulfate	183.730	5027	63921	1	-2.06
Totals			2260.150	93756	1008167		

File: 95101201.D11 Sample: S95T001851 .5-10



WHC-SD-WM-DP-37, REV. 1

```

=====
Sample Name: S95T001851 .1-10                      Date: 10/12/1995 10:19:22
Data File  : C:\DX\DATA\95101201.D10
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 10                Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====

```

```

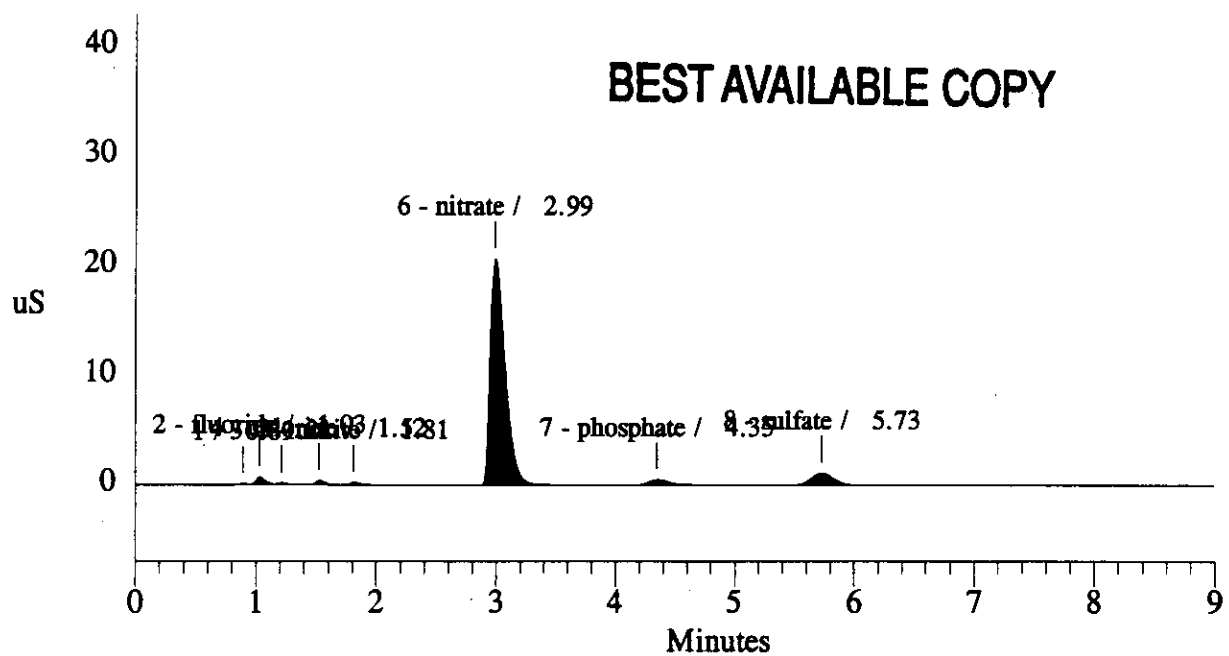
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    2700   5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	60	235	2	
2	1.03	fluoride	27.063	693	3355	2	-2.83
3	1.21		0.000	146	633	2	
4	1.52	chloride	19.309	387	1954	1	-1.30
5	1.81	nitrite	24.355	222	1335	1	-1.09
6	2.99	nitrate	2969.012	20688	177940	1	-2.61
7	4.35	phosphate	230.967	490	5593	1	-1.36
8	5.73	sulfate	207.516	1123	14534	1	-1.72
Totals			3478.221	23810	205579		

File: 95101201.D10 Sample: S95T001851 .1-10



WHC-CD-WM-DP- 137, REV. 1

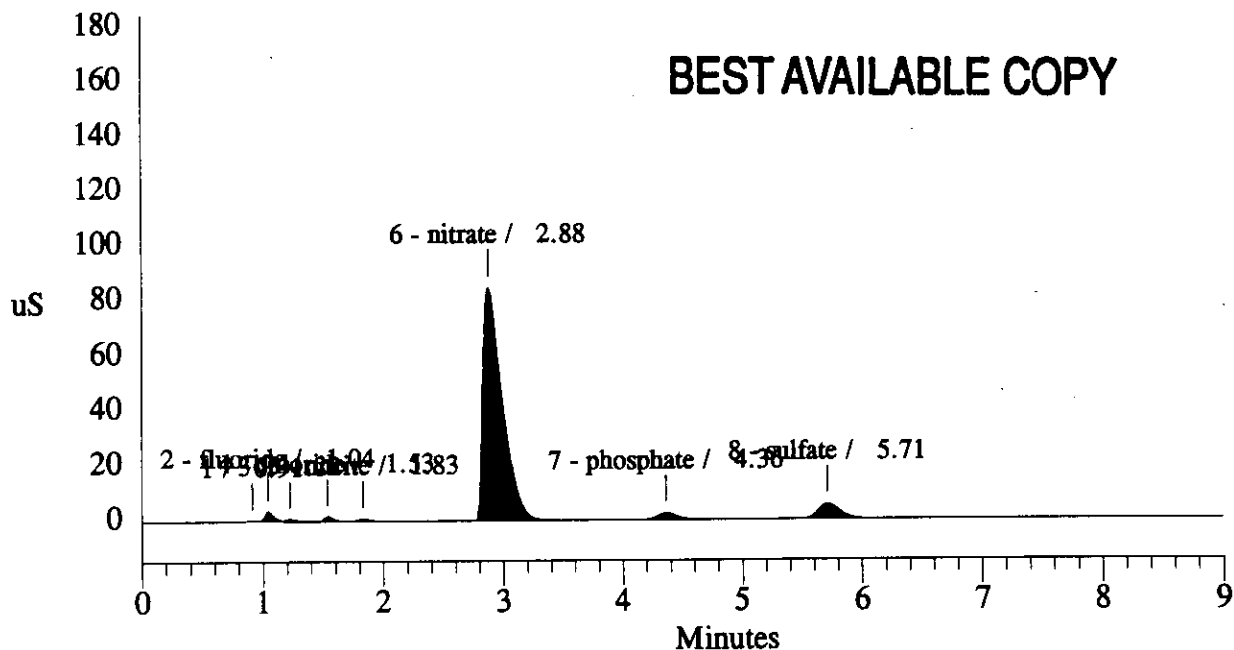
Sample Name: S95T001851 DUP .5-10 Date: 10/12/1995 10:54:33
 Data File : C:\DX\DATA\95101201.D13
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 13 Detector: CDM-1
 Analyst : *P. W. Cole* Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	144	488	2	
2	1.04	fluoride	28.101	3476	17485	2	-1.89
3	1.22		0.000	785	3897	2	
4	1.53	chloride	20.783	1741	9410	1	-0.65
5	1.83	nitrite	20.551	1022	6075	1	0.00
6	2.88	nitrate	1807.961	85022	952028	1	-6.19
7	4.36	phosphate	230.260	2539	28775	1	-1.13
8	5.71	sulfate	200.555	5558	69984	1	-2.06
Totals			2308.212	100287	1088141		

File: 95101201.D13 Sample: S95T001851 DUP .5-10



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001851 DUP .1-10          Date: 10/12/1995 10:42:49
Data File  : C:\DX\DATA\95101201.D12
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 12         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

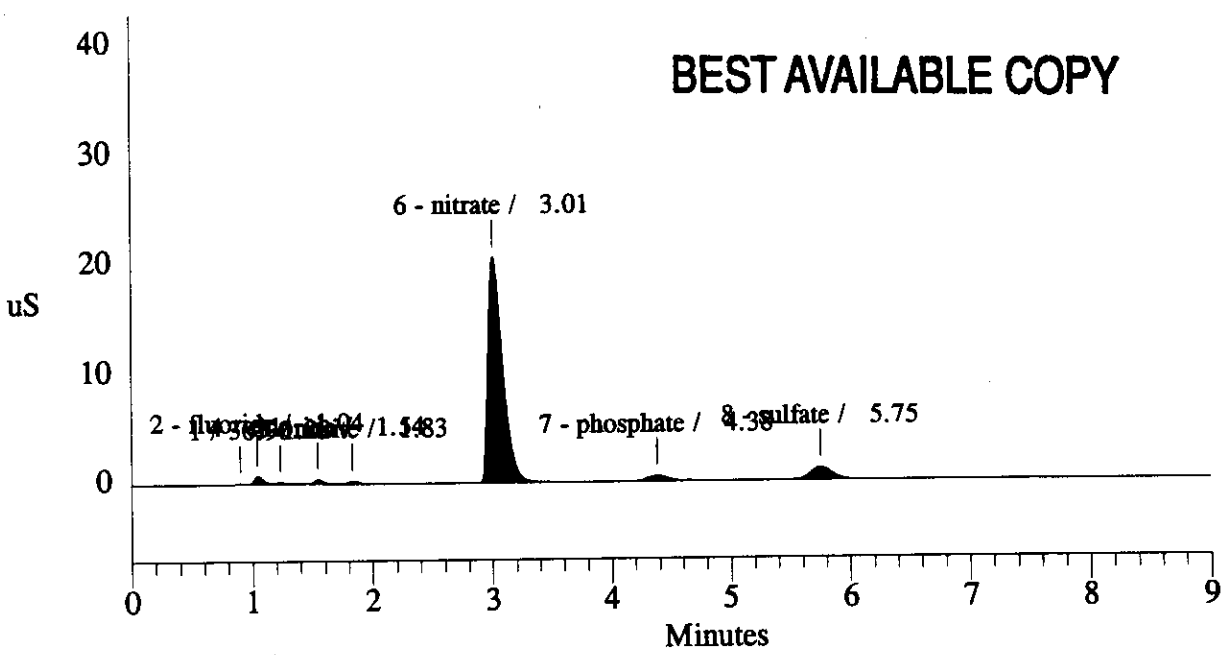
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	57	217	2	
2	1.04	fluoride	28.619	714	3552	2	-1.89
3	1.23		0.000	151	662	2	
4	1.54	chloride	19.322	394	1955	1	0.00
5	1.83	nitrite	23.887	224	1305	1	0.00
6	3.01	nitrate	2941.300	20683	176089	1	-1.95
7	4.38	phosphate	234.959	495	5695	1	-0.68
8	5.75	sulfate	210.226	1155	14727	1	-1.37
Totals			3458.315	23873	204202		

File: 95101201.D12 Sample: S95T001851 DUP .1-10



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001850 SPK .5-10          Date: 10/12/1995 10:07:36
Data File  : C:\DX\DATA\95101201.D09
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 9          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

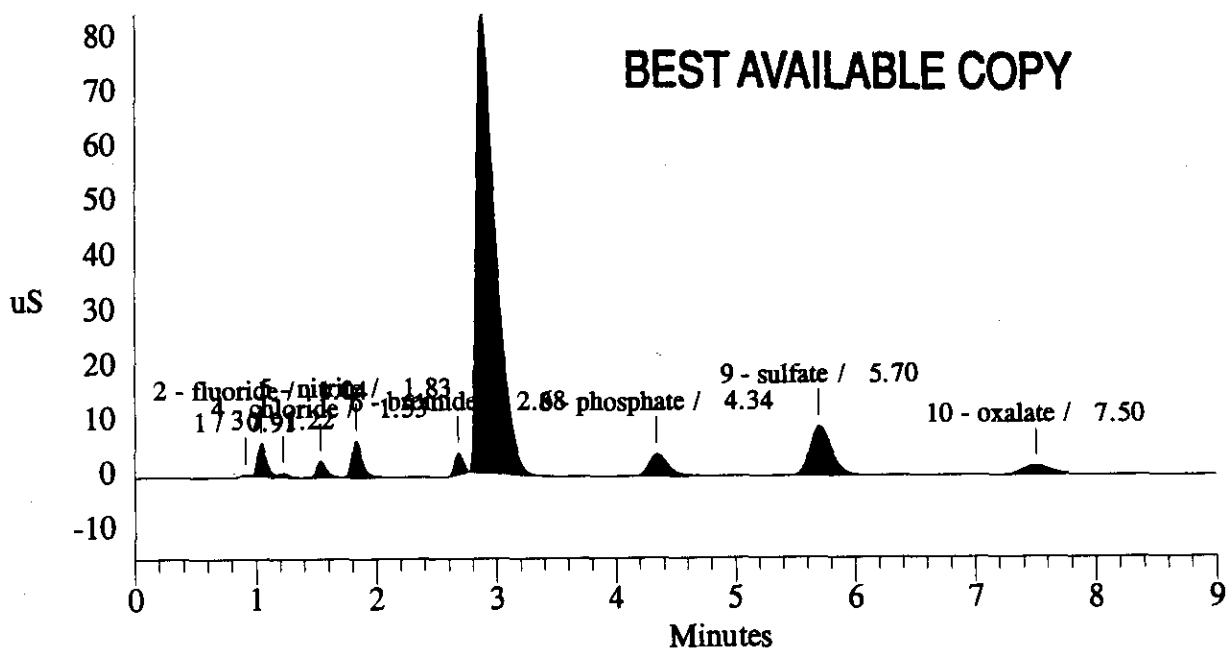
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    2700   5Hz   0.00   9.00         200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	178	628	2	
2	1.04	fluoride	48.046	6045	30975	3	-1.89
3	1.22		0.000	680	3463	4	
4	1.53	chloride	35.315	2929	16069	1	-0.65
5	1.83	nitrite	129.574	6656	40044	1	0.00
6	2.68	bromide	93.656	3846	19150	1	-0.37
7	2.88	nitrate	1807.673	83819	929974	1	-6.19
8	4.34	phosphate	352.928	4004	45387	1	-1.59
9	5.70	sulfate	321.072	8997	114441	1	-2.23
10	7.50	oxalate	116.700	1650	27486	1	-1.83
Totals			2904.962	118804	1227617		

File: 95101201.D09 Sample: S95T001850 SPK .5-10



WHO-CD-WM-DP- / 37, REV. 1

```

=====
Sample Name: S95T001850 SPK .1-10          Date: 10/12/1995 09:55:54
Data File  : C:\DX\DATA\95101201.D08
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 8          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

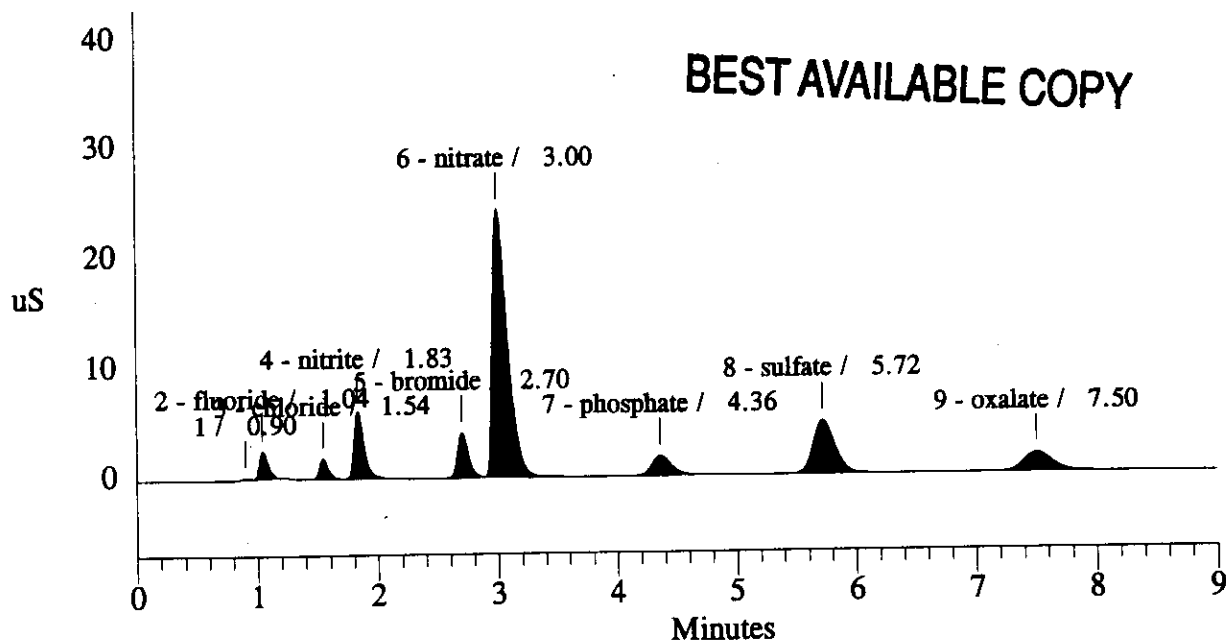
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	87	295	1	
2	1.04	fluoride	96.790	2466	12353	1	-1.89
3	1.54	chloride	99.343	1863	9352	1	0.00
4	1.83	nitrite	559.601	6168	35867	1	0.00
5	2.70	bromide	590.072	4114	25348	1	0.37
6	3.00	nitrate	3453.511	24244	211070	1	-2.28
7	4.36	phosphate	814.364	1807	20839	1	-1.13
8	5.72	sulfate	862.250	4919	62324	1	-1.89
9	7.50	oxalate	580.111	1721	28444	1	-1.83
Totals			7056.042	47389	405892		

File: 95101201.D08 Sample: S95T001850 SPK .1-10



WHC-SD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2846

Analyst: ee Instrument: IC01 IC03 Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			QIC-QC F-QC	QC		4.063	N/A	ug/ml
		1 CCB			QIC-QC CL-QC	QC		4.084	N/A	ug/ml
		1 CCB			QIC-QC NO2-QC	QC		4.534	N/A	ug/ml
		1 CCB			QIC-QC BR-QC	QC		4.150	N/A	ug/ml
		1 CCB			QIC-QC NO3-QC	QC		4.189	N/A	ug/ml
		1 CCB			QIC-QC PO4-QC	QC		4.596	N/A	ug/ml
		1 CCB			QIC-QC SO4-QC	QC		4.678	N/A	ug/ml
		1 CCB			QIC-QC OXALATQC	QC		4.525	N/A	ug/ml
		2 CCV			QIC-QC F-QC	QC		59.77	N/A	ug/ml
		2 CCV			QIC-QC CL-QC	QC		82.62	N/A	ug/ml
		2 CCV			QIC-QC NO2-QC	QC		516	N/A	ug/ml
		2 CCV			QIC-QC BR-QC	QC		580.5	N/A	ug/ml
		2 CCV			QIC-QC NO3-QC	QC		58.9	N/A	ug/ml
		2 CCV			QIC-QC PO4-QC	QC		567	N/A	ug/ml
		2 CCV			QIC-QC SO4-QC	QC		629.1	N/A	ug/ml
		2 CCV			QIC-QC OXALATQC	QC		521.3	N/A	ug/ml
		3 BLNK-PREP			QIC-01 F-02	SOLID		4.063	N/A	ug/g
		3 BLNK-PREP			QIC-01 CL-02	SOLID		4.084	N/A	ug/g
Data Entry Comments:				S.A.M		Dup				
				10.5770 g/L		10.4360				
				10.2830		10.2710				

LMCS 109N9-A .1ml - 10ml

SPIKE 109N9-A .1ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

There is organic acid interference with F on 595T001853. JMF

LABCORE Data Entry Template for Worklist#

2846

UP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				QIC-01 NO2-02	SOLID		5.534	N/A	ug/g
		3	BLNK-PREP				QIC-01 BR-02	SOLID		5.150	N/A	ug/g
		3	BLNK-PREP				QIC-01 NO3-02	SOLID		6.99	N/A	ug/g
		3	BLNK-PREP				QIC-01 PO4-02	SOLID		5.596	N/A	ug/g
		3	BLNK-PREP				QIC-01 SO4-02	SOLID		5.678	N/A	ug/g
		3	BLNK-PREP				QIC-01 OXALATE2	SOLID		5.525	N/A	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 F-02	SOLID	N/A	2.81e3	1.25e2	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 CL-02	SOLID	N/A	2.92e3	1.67e2	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 NO2-02	SOLID	N/A	2.74e3	1.06e3	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 BR-02	SOLID	N/A	2.98e2	2.98e2	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 NO3-02	SOLID	N/A	2.41e5	6.67e3	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 PO4-02	SOLID	N/A	3.01e4	1.18e3	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 SO4-02	SOLID	N/A	2.75e4	1.35e3	ug/g
95000088	B-104	4	SAMPLE	S95T001852	0	W	QIC-01 OXALATE2	SOLID	N/A	1.04e3	1.04e3	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 F-02	SOLID	2.81e3	2.96e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 CL-02	SOLID	2.92e3	3.01e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 NO2-02	SOLID	2.74e3	2.77e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 BR-02	SOLID	2.98e2	2.98e2	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 NO3-02	SOLID	2.41e5	2.51e5	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 PO4-02	SOLID	3.01e4	3.08e4	N/A	ug/g
95000088	B-104	5	DUP	S95T001852	0	W	QIC-01 SO4-02	SOLID	2.75e4	2.39e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2846

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001852	0 W	QIC-01	OXALATE2	SOLID	41.04e3	41.04e3	N/A ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	F-02	SOLID	102.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	CL-02	SOLID	105.6	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	N02-02	SOLID	97.2	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	BR-02	SOLID	95.3 713.8	9mf 10/11/95 N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	N03-02	SOLID	113.8	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	P04-02	SOLID	113.2	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	S04-02	SOLID	106.1	N/A	ug/g
95000088	B-104	6 SPK	S95T001852	0 W	QIC-01	OXALATE2	SOLID	113.6	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	F-02	SOLID	N/A	2.39e3	1.29e2 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	CL-02	SOLID	N/A	2.13e3	1.72e2 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	N02-02	SOLID	N/A	2.02e3	1.09e3 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	BR-02	SOLID	N/A	43.06e2	3.06e2 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	N03-02	SOLID	N/A	2.66e5	6.87e3 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	P04-02	SOLID	N/A	2.21e4	1.22e3 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	S04-02	SOLID	N/A	1.88e4	1.38e3 ug/g
95000088	B-104	7 SAMPLE	S95T001853	0 W	QIC-01	OXALATE2	SOLID	N/A	41.07e3	1.07e3 ug/g
95000088	B-104	8 DUP	S95T001853	0 W	QIC-01	F-02	SOLID	2.39e3	1.73e3	N/A ug/g
95000088	B-104	8 DUP	S95T001853	0 W	QIC-01	CL-02	SOLID	2.13e3	2.29e3	N/A ug/g
95000088	B-104	8 DUP	S95T001853	0 W	QIC-01	N02-02	SOLID	2.02e3	2.14e3	N/A ug/g
95000088	B-104	8 DUP	S95T001853	0 W	QIC-01	BR-02	SOLID	43.06e2	43.06e2	N/A ug/g
95000088	B-104	8 DUP	S95T001853	0 W	QIC-01	N03-02	SOLID	2.66e5	2.81e5	N/A ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2846

JP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001853	0 W	@IC-01 PO4-02	SOLID	2.21e4	2.19e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001853	0 W	@IC-01 SO4-02	SOLID	1.88e4	1.96e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001853	0 W	@IC-01 OXALATE2	SOLID	4.07e3	4.07e3	N/A	ug/g

Final page for worklist #

2846

ERD. Esh 10-12-95
Analyst Signature Date

Analyst Signature Date

Entered + Verified 10/17/95
Janet M. Faye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001852 & S95T001853 TEST CODE: @IC-01 INSTRUMENT: IC03 WORK LIST #: 2846 BATCH ID:	ANALYST: Ed Colvin ANALYSIS DATE: 10/12/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	---

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9a		101.3%	104.6%	96.8%	97.1%	103.8%	99.7%	101.0%	99.1%
S95T001852		2.81E+03	2.92E+03	2.74E+03	2.41E+05	3.01E+04	2.75E+04	<297.82	<1042.36
S95T001852dup		2.96E+03	3.01E+03	2.77E+03	2.51E+05	3.08E+04	2.39E+04	<301.84	<1056.44
Duplicate 1 RPD		5.2%	3.1%	1.3%	3.8%	2.1%	14.2%	N/A	N/A
S95T001853		2.39E+03	2.13E+03	2.02E+03	2.66E+05	2.21E+04	1.88E+04	<306.33	<1072.16
S95T001853dup		1.73E+03	2.29E+03	2.14E+03	2.81E+05	2.19E+04	1.96E+04	<306.69	<1073.41
Duplicate 2 RPD		32.1%	7.2%	5.8%	5.5%	0.8%	4.2%	N/A	N/A
S95T001852spk		102.3%	105.6%	97.2%	113.8%	113.2%	106.1%	95.3%	113.6%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>James Faye</i>	Date: 10/16/95
Chemist Approval: <i>James Faye</i>	Date: 10/16/95

330

LAB LEADER INFO	
Method:	LA-533-105 d-1
Matrix:	solid
Test Code:	@IC-01
Work List #:	2846
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N8A
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	10/16/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	10/12/95
Time Complete:	
Instrument Code:	IC03
Run:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	109N8a
SAMPLE 1	S95T001882
DUPLICATE 1	S95T001882dup
SAMPLE 2	S95T001863
DUPLICATE 2	S95T001863dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001852spk
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.063	<.084	<.534	<.899	<.696	<.678	<.160	<.525
Standard Data (µg/mL)	59.77	82.82	516	695.9	667	629.1	680.5	521.3
Sample 1 Data (µg/mL)	2.98E+01	3.09E+01	2.90E+01	2.55E+03	3.19E+02	2.91E+02	<.160	<.525
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21
Sample 1 Prep DF	10.577	10.577	10.577	10.577	10.577	10.577	10.577	10.577
Duplicate 1 Data (µg/mL)	3.09E+01	3.14E+01	2.89E+01	2.81E+03	3.21E+02	2.49E+02	<.160	<.525
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 1 Prep DF	10.436	10.436	10.436	10.436	10.436	10.436	10.436	10.436
Sample 2 Data (µg/mL)	2.45E+01	2.19E+01	2.08E+01	2.74E+03	2.27E+02	1.93E+02	<.160	<.525
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21
Sample 2 Prep DF	10.283	10.283	10.283	10.283	10.283	10.283	10.283	10.283
Duplicate 2 Data (µg/mL)	1.77E+01	2.36E+01	2.20E+01	2.89E+03	2.25E+02	2.01E+02	<.160	<.525
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 2 Prep DF	10.271	10.271	10.271	10.271	10.271	10.271	10.271	10.271
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	4.18E+01	4.75E+01	1.33E+02	3.26E+03	4.42E+02	4.25E+02	1.10E+02	1.20E+02
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.60	10.60	10.60	10.10	10.60	10.60	10.60	10.60
Std. Conc. (µg/mL)	69	79	533	614	646	631	576	526
Detection Limit	0.063	0.084	0.534	0.899	0.696	0.678	0.160	0.525
Matrix Detection Limit 1	1.25E+02	1.87E+02	1.06E+03	6.87E+03	1.18E+03	1.36E+03	2.98E+02	1.04E+03
Matrix Detection Limit 2	1.29E+02	1.72E+02	1.06E+03	6.87E+03	1.22E+03	1.38E+03	3.06E+02	1.07E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = $\frac{[(\text{Spike} + \text{Sample}) - (\text{Sample})] \times (\text{Total Volume})}{[(\text{Spike Vol.}) \times (\text{Spike Std.}) \times (\text{Sample DF})]} \times 100\%$

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

Duplicate Relative % Difference = $\frac{(\text{Sample} - \text{Duplicate})}{[(\text{Sample} + \text{Duplicate}) / 2]} \times 100\%$

Less than Values are Calculated from the Detection Limit / Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	101.3%	104.6%	98.6%	97.1%	103.5%	95.7%	101.0%	95.1%
Sample 1 in µg/g	2.81E+03	2.92E+03	2.74E+03	2.41E+06	3.01E+04	2.76E+04	<297.82	<1042.36
Duplicate 1 in µg/g	2.96E+03	3.01E+03	2.77E+03	2.51E+06	3.08E+04	2.39E+04	<301.84	<1066.44
Duplicate 1 RPD	6.2%	3.1%	1.3%	3.6%	2.1%	14.2%	N/A	N/A
Sample 2 in µg/g	2.39E+03	2.13E+03	2.02E+03	2.66E+06	2.21E+04	1.88E+04	<306.33	<1072.16
Duplicate 2 in µg/g	1.73E+03	2.29E+03	2.14E+03	2.61E+06	2.19E+04	1.96E+04	<306.69	<1073.41
Duplicate 2 RPD	32.1%	7.2%	5.6%	6.6%	0.8%	4.2%	N/A	N/A
Spike % Recovery	102.3%	105.6%	97.2%	113.6%	113.2%	106.1%	98.3%	113.6%

Data Entry by:

Date: 10/16/95

Approved by:

Date: 10/16/95

Form DIONEXWB1 Rev. 1.3

331

Sample Name: 109N9-A STD .1-10
 Data File : C:\DX\DATA\95101201.D03
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 3
 Analyst : Ed Colvin Column:

Date: 10/12/1995 08:56:42

Detector: CDM-2

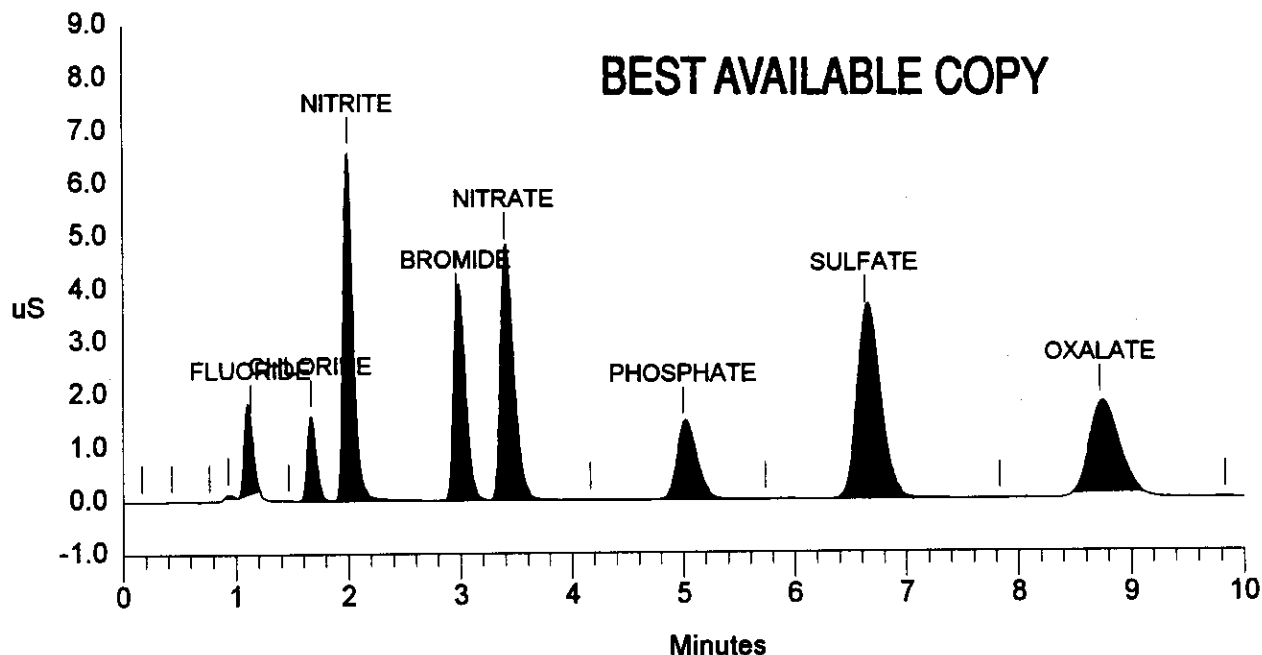
===== *Ed Colvin 10.12.95* =====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
5	1.13	FLUORIDE	59.774	1344282	8712493	1	3.03
7	1.67	CHLORIDE	82.620	1584868	8818780	1	2.04
8	2.00	NITRITE	516.082	6567195	40636876	1	1.69
9	2.97	BROMIDE	580.577	3600464	29833299	2	2.30
10	3.40	NITRATE	595.911	4745723	40214465	3	4.08
12	5.00	PHOSPHATE	567.028	1424371	18729072	3	1.35
14	6.63	SULFATE	629.159	3522403	54259104	1	2.05
16	8.73	OXALATE	521.392	1696919	30906160	1	2.34
Totals			3552.542	24486225	232110250		

File: 95101201.D03 Sample: 109N9-A STD .1-10



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 332 TO 344.

WHC-SD-WM-DP-132, REV. 1

```

=====
Sample Name: PREP BLANK                      Date: 10/12/1995 08:43:55
Data File  : C:\DX\DATA\95101201.D02
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 2          Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

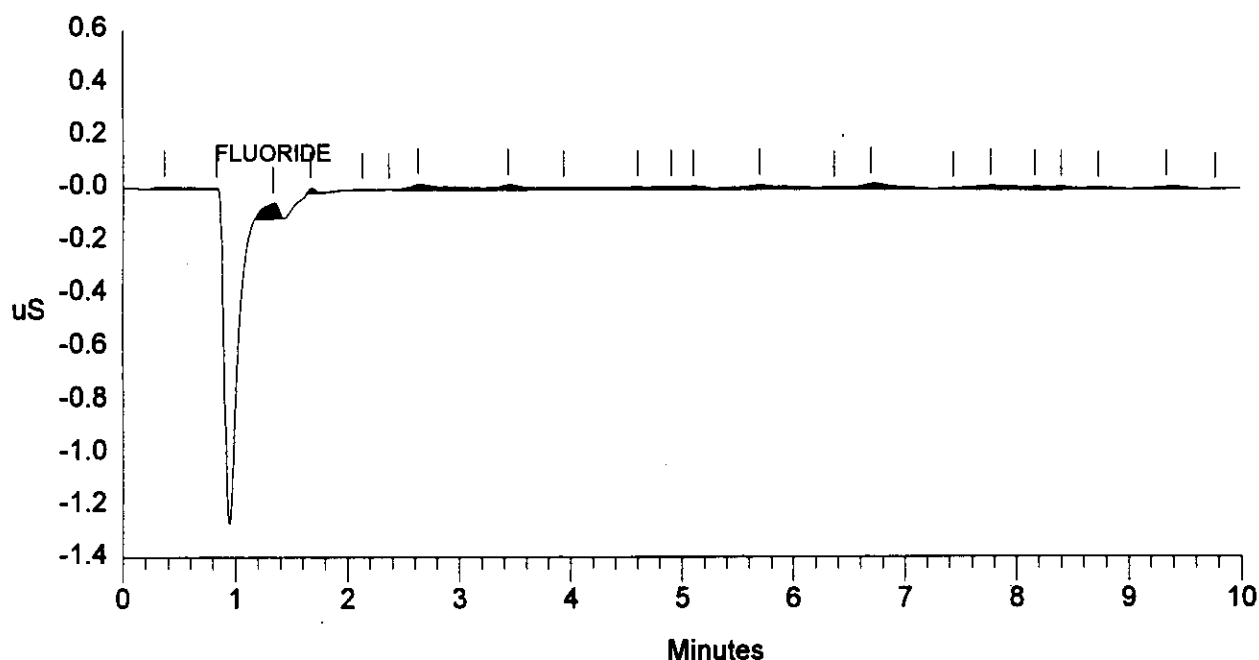
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00 500000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.33	FLUORIDE	0.025	56208	553168	1	21.21
7	2.63		0.000	21291	518851	2	
Totals			0.025	77499	1072019		

File: 95101201.D02 Sample: PREP BLANK



WHG-SD-WM-DP-137, REV. 1

Sample Name: INSTR BLANK

Date: 10/12/1995 08:31:10

Data File : C:\DX\DATA\95101201.D01

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 1

Detector: CDM-2

Analyst : Ed Colvin Column:

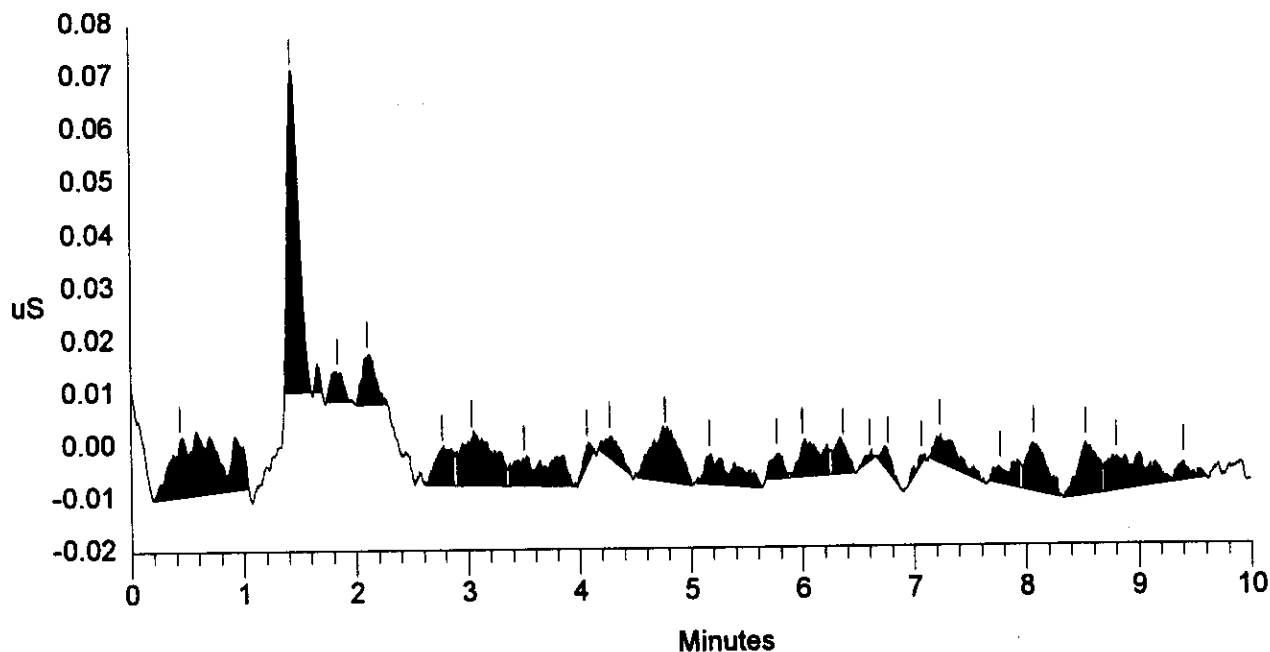
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
---------	----------	----------------	---------------------	--------	------	----------	--------

Totals			0.000	0	0		
--------	--	--	-------	---	---	--	--

File: 95101201.D01 Sample: INSTR BLANK



WHC-SD-WM-DP-137, REV. 1


```

=====
Sample Name: S95T001852 .5-10                      Date: 10/12/1995 09:22:08
Data File  : C:\DX\DATA\95101201.D05
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 5                  Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

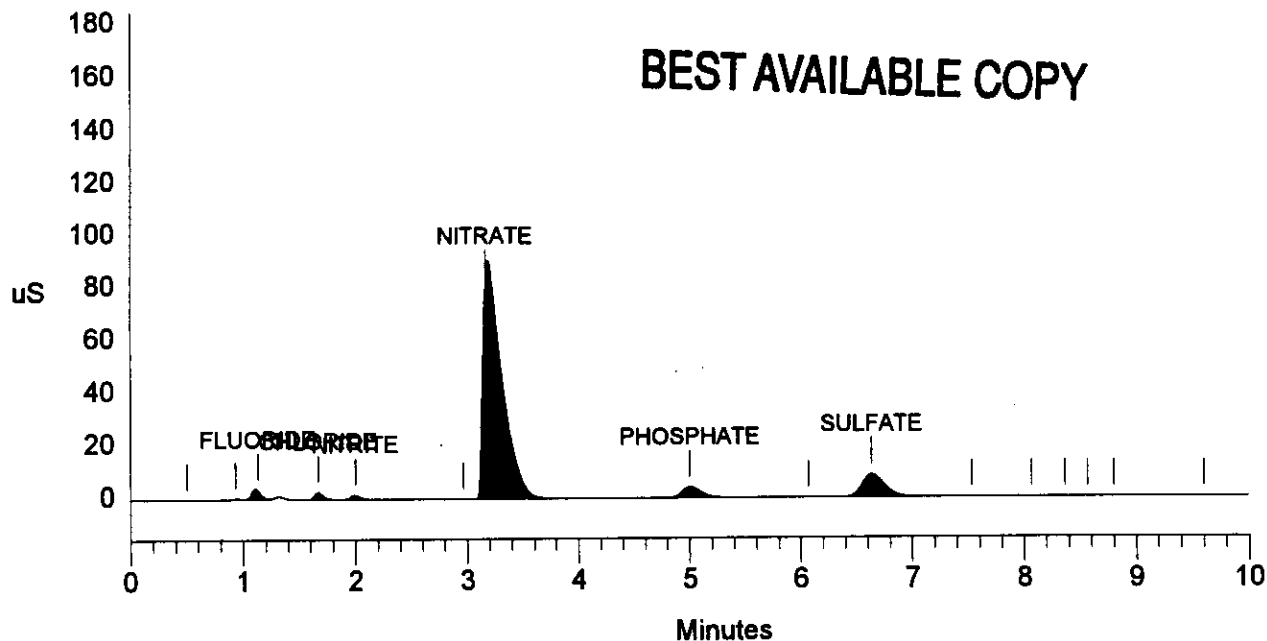
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	178117	659200	1	
3	1.13	FLUORIDE	29.750	3195238	21212680	1	3.03
4	1.67	CHLORIDE	30.865	2853725	16033602	1	2.04
5	2.00	NITRITE	28.958	1693159	10301740	1	1.69
7	3.17	NITRATE	2054.342	80801499	1057094026	2	-3.06
8	5.00	PHOSPHATE	318.533	4178132	52066764	3	1.35
10	6.63	SULFATE	291.019	8604856	123901573	3	2.05
Totals			2753.465	101504726	1281269586		

File: 95101201.D05 Sample: S95T001852 .5-10



Sample Name: S95T001852 .1-10
 Data File : C:\DX\DATA\95101201.D04
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 4
 Analyst : Ed Colvin Column:

Date: 10/12/1995 09:09:25

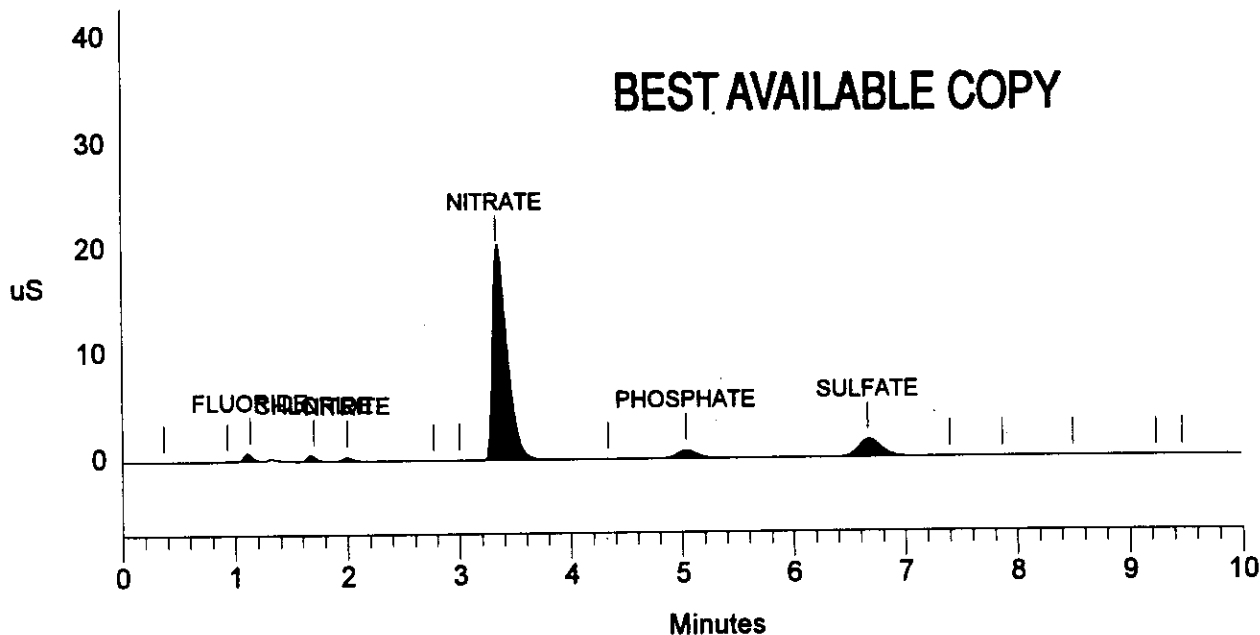
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	27.209	621694	4034404	1	3.03
4	1.70	CHLORIDE	27.309	405893	2892080	1	4.08
5	2.00	NITRITE	35.672	338907	2016152	1	1.69
8	3.33	NITRATE	2551.259	19755357	182447832	3	2.04
10	5.03	PHOSPHATE	300.328	765957	9846814	2	2.03
11	6.67	SULFATE	286.380	1645690	24208666	2	2.56
Totals			3228.158	23533498	225445948		

File: 95101201.D04 Sample: S95T001852 .1-10



ENC-00-WM-DP-132, REV. 1

```

=====
Sample Name: S95T001852 DUP .5-10          Date: 10/12/1995 09:47:33
Data File  : C:\DX\DATA\95101201.D07
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 7          Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

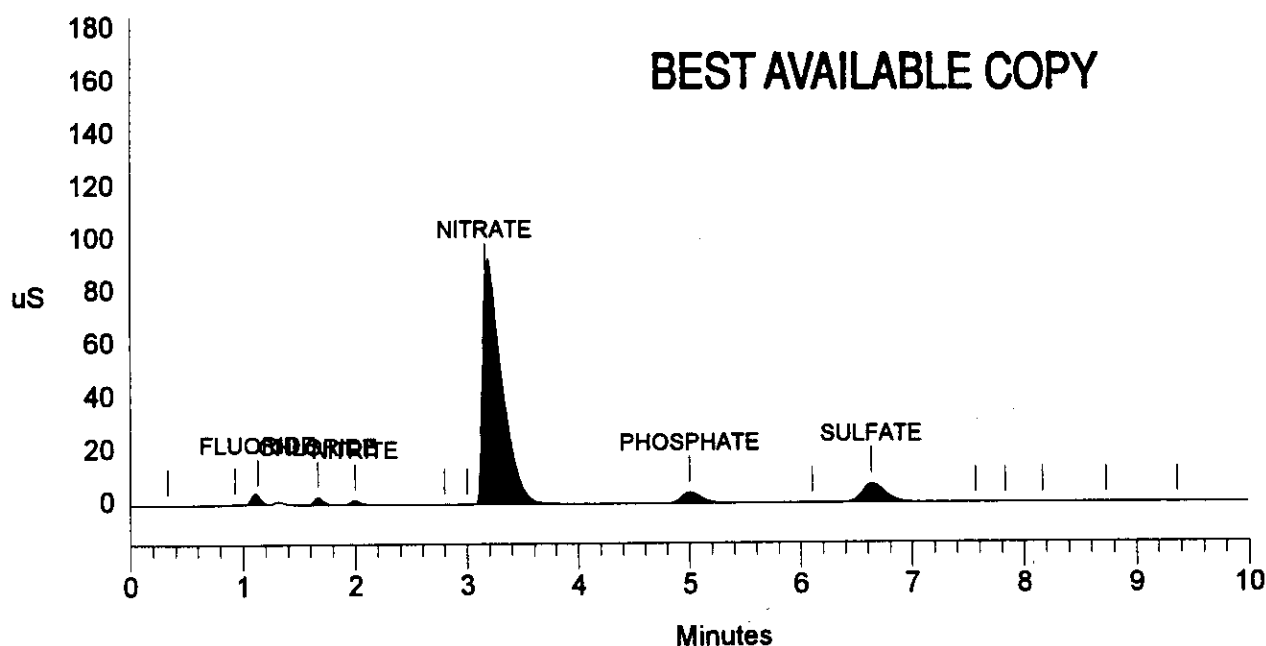
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz  0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	200933	776040	1	
3	1.13	FLUORIDE	30.928	3328217	22093160	1	3.03
4	1.67	CHLORIDE	31.402	2856557	16320652	1	2.04
5	2.00	NITRITE	28.949	1697192	10298226	1	1.69
8	3.17	NITRATE	2081.896	85205439	1094253883	2	-3.06
9	5.00	PHOSPHATE	321.085	4131696	52503882	3	1.35
11	6.63	SULFATE	249.011	7232816	105345298	3	2.05
Totals			2743.270	104652849	1301591141		

File: 95101201.D07 Sample: S95T001852 DUP .5-10



DOC-02-WM-DP-137, REV. 1

Sample Name: S95T001852 DUP .1-10
 Data File : C:\DX\DATA\95101201.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 6
 Analyst : Ed Colvin Column:

Date: 10/12/1995 09:34:50

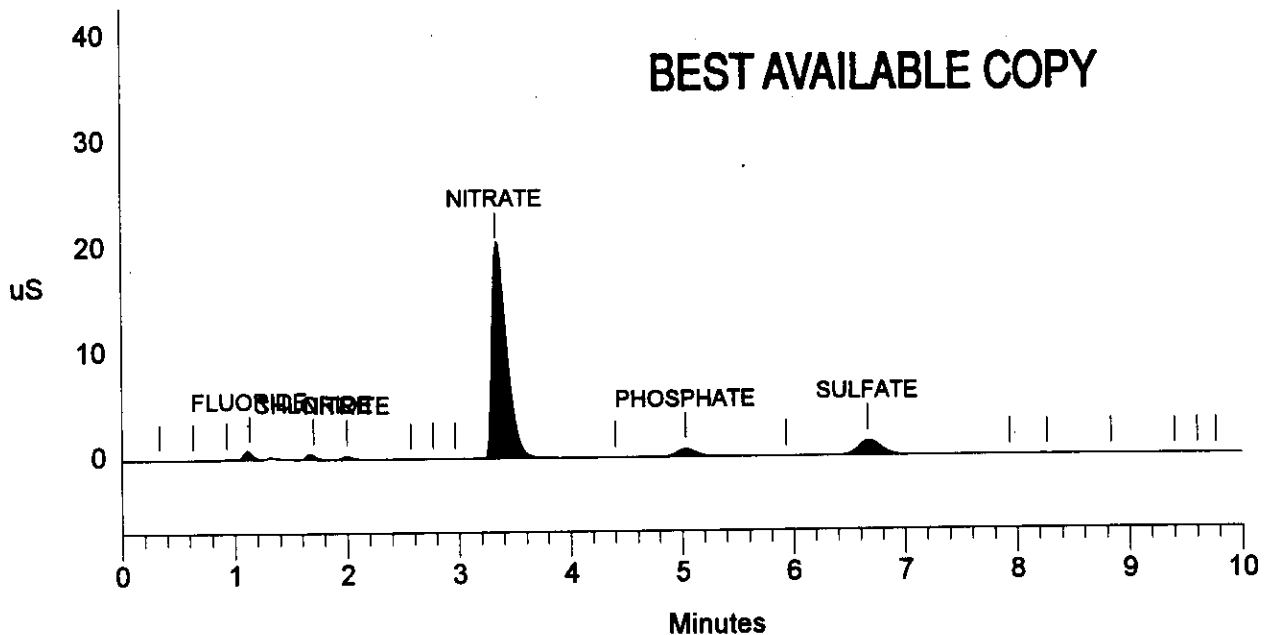
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	30.664	719168	4525606	1	3.03
5	1.70	CHLORIDE	26.980	404101	2857134	1	4.08
6	2.00	NITRITE	34.560	328826	1927312	1	1.69
10	3.33	NITRATE	2614.640	19930988	187334215	3	2.04
12	5.03	PHOSPHATE	296.935	767641	9734663	2	2.03
14	6.67	SULFATE	251.279	1412583	21161811	2	2.56
Totals			3255.056	23563307	227540741		

File: 95101201.D06 Sample: S95T001852 DUP .1-10



WHO-OD-WM-DP-132, REV. 1

```

=====
Sample Name: S95T001853 .5-10                      Date: 10/12/1995 10:38:33
Data File  : C:\DX\DATA\95101201.D11
Method     : C:\DX\METHOD\ANIONS.MET
CI Address: 1 System: 2 Inject#: 11                  Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

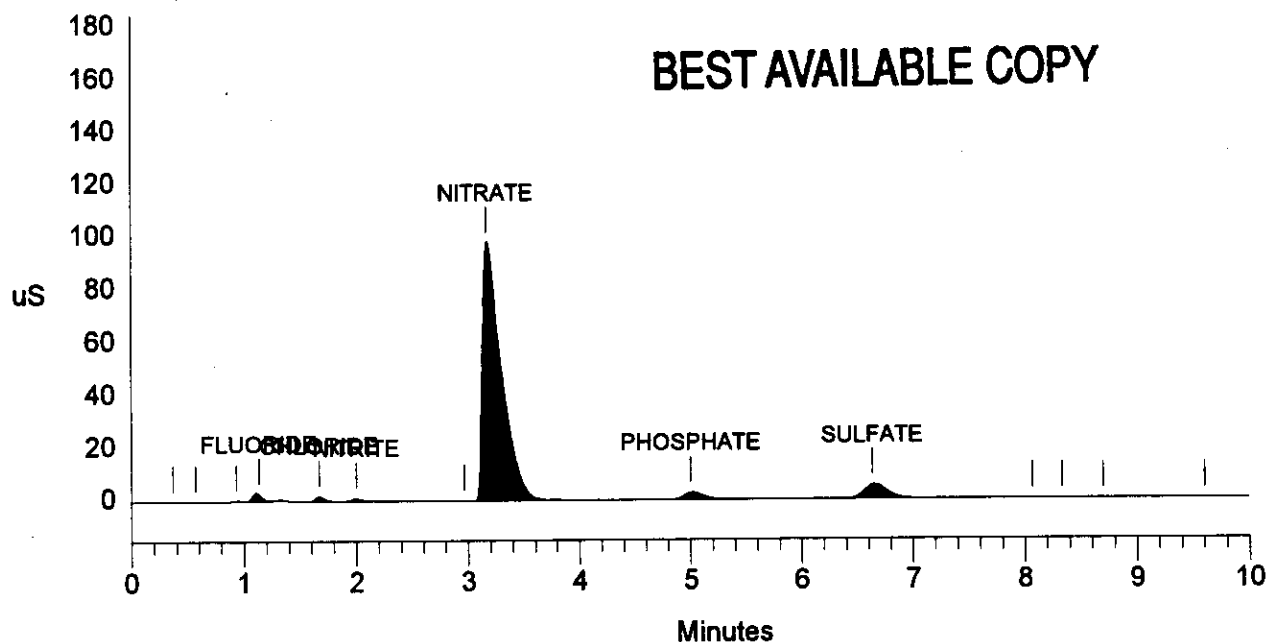
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000   5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	175869	650640	1	
4	1.13	FLUORIDE	24.541	2635162	17367840	1	3.03
5	1.67	CHLORIDE	21.931	2009659	11303468	1	2.04
6	2.00	NITRITE	20.789	1176448	7156820	1	1.69
8	3.17	NITRATE	2121.283	97614028	1156539360	2	-3.06
9	5.00	PHOSPHATE	226.815	2769474	36582393	2	1.35
10	6.63	SULFATE	192.903	5330091	80893160	3	2.05
Totals			2608.262	111710730	1310493682		

File: 95101201.D11 Sample: S95T001853 .5-10



WHC-CD-WM-OP-132, REV. 1

```

=====
Sample Name: S95T001853 .1-10                      Date: 10/12/1995 10:25:48
Data File  : C:\DX\DATA\95101201.D10
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 10                Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

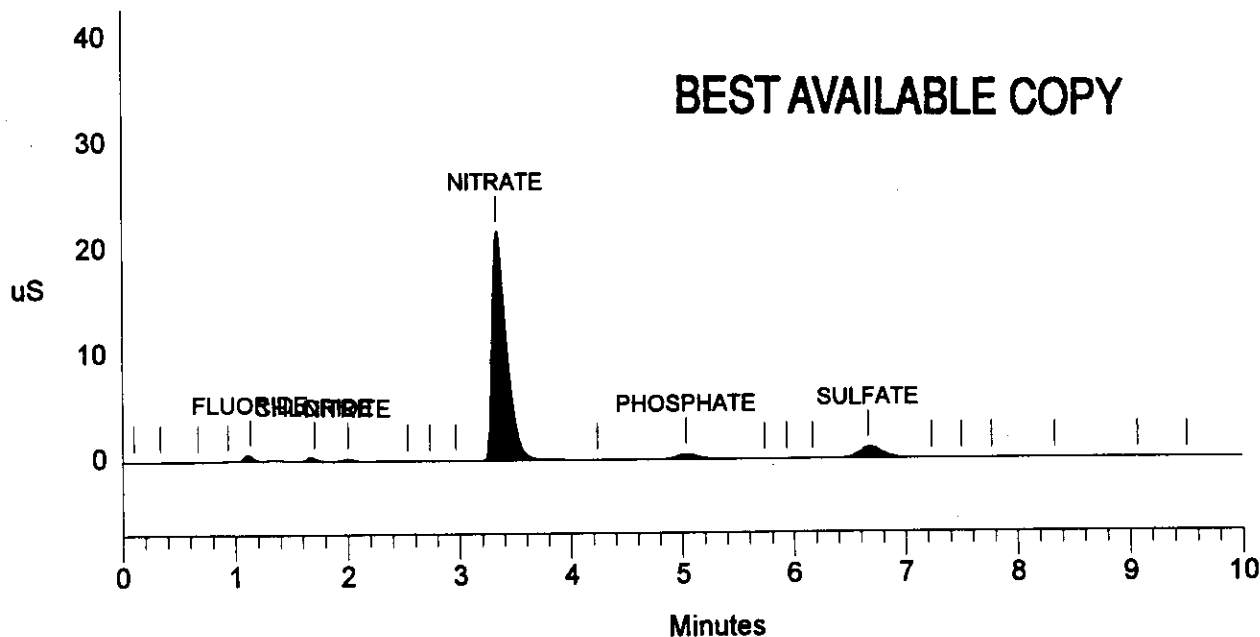
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00    500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
5	1.13	FLUORIDE	21.691	500324	3252392	1	3.03
6	1.70	CHLORIDE	19.034	280317	2015484	1	4.08
7	2.00	NITRITE	27.124	226619	1333532	1	1.69
11	3.33	NITRATE	2735.264	21645112	196688050	3	2.04
13	5.03	PHOSPHATE	203.831	517494	6665764	3	2.03
17	6.67	SULFATE	192.065	1083565	16034552	3	2.56
Totals			3199.008	24253431	225989774		

File: 95101201.D10 Sample: S95T001853 .1-10



WHC-ID-WM-DP-137, REV. 1

340

Sample Name: S95T001853 DUP .5-10

Date: 10/12/1995 11:04:00

Data File : C:\DX\DATA\95101201.D13

Method : C:\DX\METHOD\ANIONS.MET

CI Address: 1 System: 2 Inject#: 13

Detector: CDM-2

Analyst : Ed Colvin Column:

Ed Colvin

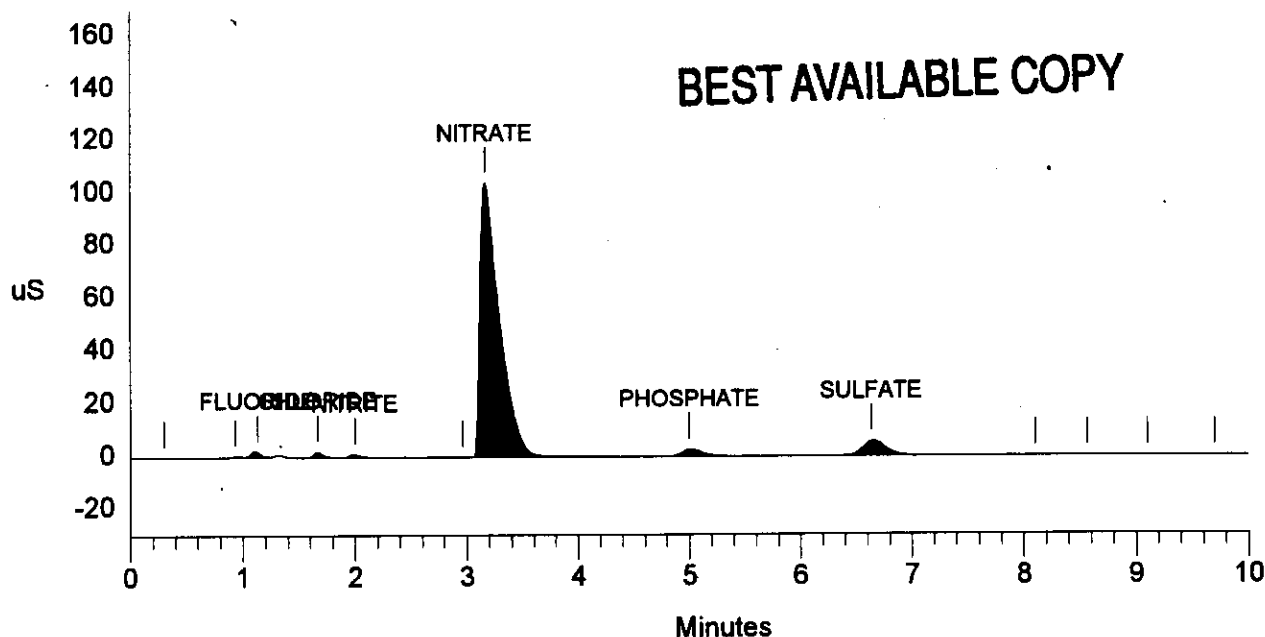
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	169886	654000	1	
3	1.13	FLUORIDE	17.733	1850314	12455980	1	3.03
4	1.67	CHLORIDE	23.550	2145657	12155052	1	2.04
5	2.00	NITRITE	21.991	1242775	7619652	1	1.69
7	3.17	NITRATE	2161.021	103896623	1240819282	2	-3.06
8	5.00	PHOSPHATE	224.818	2709965	36250025	2	1.35
9	6.63	SULFATE	200.975	5620052	84387982	2	2.05

Totals 2650.088 117635272 1394341973

File: 95101201.D13 Sample: S95T001853 DUP .5-10



W#C-SD-WM-DP-132, REV. 1

```

=====
Sample Name: S95T001853 DUP .1-10      Date: 10/12/1995 10:51:16
Data File  : C:\DX\DATA\95101201.D12
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 12      Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

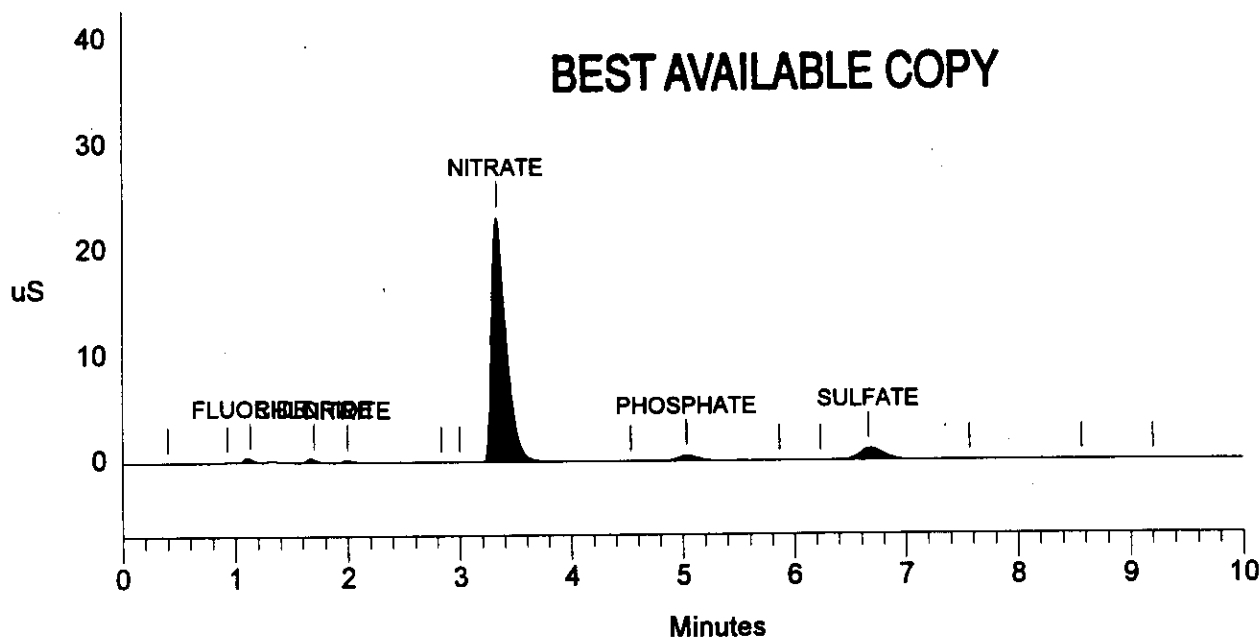
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	1.13	FLUORIDE	16.009	371882	2450082	1	3.03
4	1.70	CHLORIDE	20.207	292874	2139584	1	4.08
5	2.00	NITRITE	28.394	242047	1434924	1	1.69
8	3.33	NITRATE	2887.778	23115215	208618735	3	2.04
10	5.03	PHOSPHATE	198.508	500160	6490804	2	2.03
13	6.67	SULFATE	199.905	1119936	16712511	3	2.56
Totals			3350.800	25642114	237846640		

File: 95101201.D12 Sample: S95T001853 DUP .1-10



WHO-CD-WM-DP-137, REV.1


```

=====
Sample Name: S95T001852 SPK .1-10      Date: 10/12/1995 10:00:16
Data File  : C:\DX\DATA\95101201.D08
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 8      Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

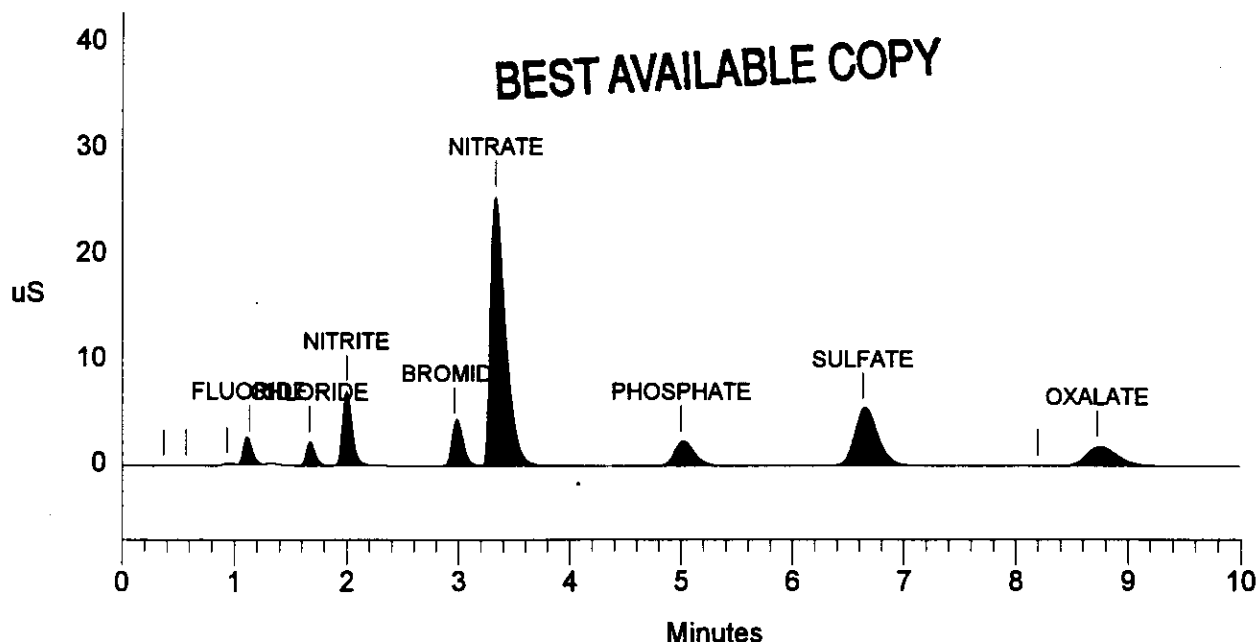
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000  5Hz   0.00 10.00    500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	95.695	2127042	14003580	1	3.03
5	1.67	CHLORIDE	113.575	2216833	12189096	1	2.04
6	2.00	NITRITE	525.133	7019596	41369456	1	1.69
7	2.97	BROMIDE	586.782	3991016	30161770	2	2.30
8	3.33	NITRATE	3249.898	25461961	237431070	2	2.04
9	5.00	PHOSPHATE	892.489	2280385	29755562	2	1.35
10	6.63	SULFATE	920.688	5387862	80256222	2	2.05
12	8.73	OXALATE	593.100	1781543	35187349	2	2.34
Totals			6977.361	50266238	480354105		

File: 95101201.D08 Sample: S95T001852 SPK .1-10



WQC-QD-WM-DP-137, REV L

Sample Name: S95T001852 SPK .5-10
 Data File : C:\DX\DATA\95101201.D09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9
 Analyst : Ed Colvin Column:

Date: 10/12/1995 10:13:02

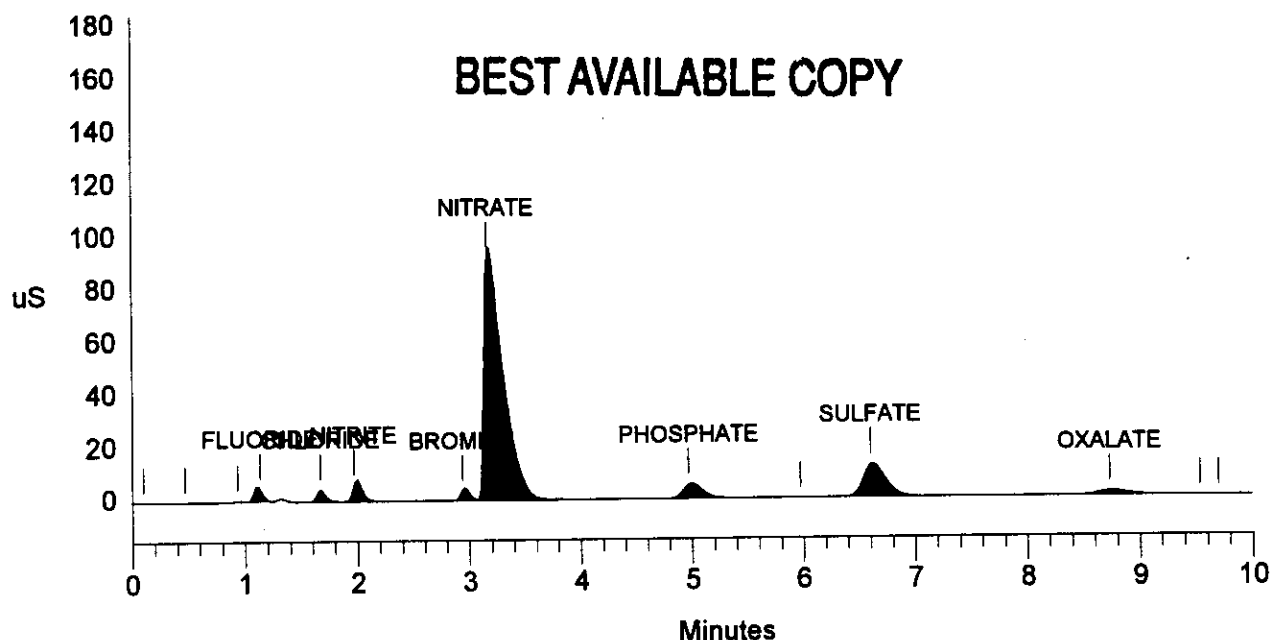
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	254933	973060	1	
4	1.13	FLUORIDE	41.820	4539437	30442780	1	3.03
5	1.67	CHLORIDE	47.542	4534298	25081858	1	2.04
6	1.97	NITRITE	132.673	6326339	50527690	1	0.00
7	2.93	BROMIDE	109.677	3869238	27028480	2	1.15
8	3.17	NITRATE	2103.777	92284142	1127177550	2	-3.06
9	4.97	PHOSPHATE	442.135	5524403	73653366	3	0.68
11	6.60	SULFATE	424.931	12582732	184574249	2	1.54
12	8.73	OXALATE	119.582	1749566	34113678	1	2.34
Totals			3422.137	131665088	1553572711		

File: 95101201.D09 Sample: S95T001852 SPK .5-10



WHC-OD-WM-DP-137, REV. 1

LABCORE Data Entry Template for Worklist#

2850

Analyst: RS McCoun

Instrument: IC01 IC 01

Book # 109N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B104 IC water digests, especially need Br. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			gIC-QC F-QC	QC	1	<.062	N/A	ug/mL
		1 CCB			gIC-QC CL-QC	QC		<.083	N/A	ug/mL
		1 CCB			gIC-QC NO2-QC	QC		<.547	N/A	ug/mL
		1 CCB			gIC-QC BR-QC	QC		<.150	N/A	ug/mL
		1 CCB			gIC-QC NO3-QC	QC		<.699	N/A	ug/mL
		1 CCB			gIC-QC PO4-QC	QC		<.596	N/A	ug/mL
		1 CCB			gIC-QC SO4-QC	QC		<.678	N/A	ug/mL
		1 CCB			gIC-QC OXALATQC	QC	↓	<.496	N/A	ug/mL
		2 CCV			gIC-QC F-QC	QC	59	6.24 ^{E1}	N/A	ug/mL
		2 CCV			gIC-QC CL-QC	QC	79	8.01 ^{E1}	N/A	ug/mL
		2 CCV			gIC-QC NO2-QC	QC	533	530 ^{E2}	N/A	ug/mL
		2 CCV			gIC-QC BR-QC	QC	575	5.74 ^{E2}	N/A	ug/mL
		2 CCV			gIC-QC NO3-QC	QC	614	6.23 ^{E2}	N/A	ug/mL
		2 CCV			gIC-QC PO4-QC	QC	546	5.67 ^{E2}	N/A	ug/mL
		2 CCV			gIC-QC SO4-QC	QC	631	6.46 ^{E2}	N/A	ug/mL
		2 CCV			gIC-QC OXALATQC	QC	526	5.65 ^{E2}	N/A	ug/mL
		3 BLNK-PREP			gIC-01 F-02	SOLID	1	<.062	N/A	ug/g
		3 BLNK-PREP			gIC-01 CL-02	SOLID	↓	<.083	N/A	ug/g

Data Entry Comments:

The Br values are very close to the detection limit, and may have wider error bars than the other data. The Br spike recovery is poor due to interference from the large NO₃ peak following it.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, 344.1
R = Replicate Number, A = Aliquot Code.

S95T0001855 has organic acid interference with F causing poor RPD and spike recovery. There is poor RPD's on CL & PO₄ due to either matrix or sample. A note to be made by JMF.

LABCORE Data Entry Template for Worklist#

2850

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				01C-01 NO2-02	SOLID	1	2.547	N/A	ug/g
		3	BLNK-PREP				01C-01 BR-02	SOLID		4150	N/A	ug/g
		3	BLNK-PREP				01C-01 NO3-02	SOLID		2.699	N/A	ug/g
		3	BLNK-PREP				01C-01 PO4-02	SOLID		2.596	N/A	ug/g
		3	BLNK-PREP				01C-01 SO4-02	SOLID		2.678	N/A	ug/g
		3	BLNK-PREP				01C-01 OXALATE2	SOLID	✓	2.496	N/A	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 F-02	SOLID	N/A	2.64 ^{E3}	162 ^{E2}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 CL-02	SOLID	N/A	2.22 ^{E3}	2.16 ^{E2}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 NO2-02	SOLID	N/A	2.09 ^{E3}	1.42 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 BR-02	SOLID	N/A	4.76 ^{E2}	3.86 ^{E2} 1.63 ^{E3} 6/17/95	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 NO3-02	SOLID	N/A	2.81 ^{E5}	6.98 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 PO4-02	SOLID	N/A	2.28 ^{E4}	1.53 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 SO4-02	SOLID	N/A	2.02 ^{E4}	1.74 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001854	0	W	01C-01 OXALATE2	SOLID	N/A	1.35 ^{E3}	1.35 ^{E3}	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 F-02	SOLID	2.64 ^{E3}	2.27 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 CL-02	SOLID	2.22 ^{E3}	2.14 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 NO2-02	SOLID	2.09 ^{E3}	2.05 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 BR-02	SOLID	4.76 ^{E2}	4.93 ^{E2}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 NO3-02	SOLID	2.81 ^{E5}	2.85 ^{E5}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 PO4-02	SOLID	2.28 ^{E4}	2.18 ^{E4}	N/A	ug/g
95000088	B-104	5	DUP	S95T001854	0	W	01C-01 SO4-02	SOLID	2.02 ^{E4}	1.99 ^{E4}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344, 2

LABCORE Data Entry Template for Worklist#

2850

UP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
0000088	B-104	5 DUP	S95T001854	0 W	QIC-01 OXALATE2	SOLID	41.35 ^{E3}	41.35 ^{E3}	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 F-02	SOLID	100	121.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 CL-02	SOLID		99.8	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 NO2-02	SOLID		98.1	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 BR-02	SOLID		77.2	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 NO3-02	SOLID		97.7	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 PO4-02	SOLID		102.8	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 SO4-02	SOLID		103.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001854	0 W	QIC-01 OXALATE2	SOLID	↓	108.4	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 F-02	SOLID	N/A	3.66 ^{E3}	2.57 ^{E2}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 CL-02	SOLID	N/A	2.87 ^{E3}	3.43 ^{E2}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 NO2-02	SOLID	N/A	2.24 ^{E3}	2.26 ^{E3}	ug/g
000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 BR-02	SOLID	N/A	2.58 ^{E3}	2.58 ^{E3}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 NO3-02	SOLID	N/A	3.11 ^{E3}	2.43 ^{E3}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 PO4-02	SOLID	N/A	2.65 ^{E4}	2.77 ^{E3}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 SO4-02	SOLID	N/A	2.17 ^{E4}	2.77 ^{E3}	ug/g
95000088	B-104	7 SAMPLE	S95T001855	0 W	QIC-01 OXALATE2	SOLID	N/A	2.15 ^{E3}	2.15 ^{E3}	ug/g
95000088	B-104	8 DUP	S95T001855	0 W	QIC-01 F-02	SOLID	3.66 ^{E3}	1.13 ^{E3}	N/A	ug/g
95000088	B-104	8 DUP	S95T001855	0 W	QIC-01 CL-02	SOLID	2.87 ^{E3}	2.20 ^{E3}	N/A	ug/g
95000088	B-104	8 DUP	S95T001855	0 W	QIC-01 NO2-02	SOLID	2.24 ^{E3}	2.19 ^{E3}	N/A	ug/g
95000088	B-104	8 DUP	S95T001855	0 W	QIC-01 BR-02	SOLID	6.57 ^{E2}	6.60 ^{E2}	N/A	ug/g
95000088	B-104	8 DUP	S95T001855	0 W	QIC-01 NO3-02	SOLID	3.11 ^{E3}	3.12 ^{E3}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.3

LABCORE Data Entry Template for Worklist#

2850

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001855	0 W	@IC-01	PO4-02	SOLID	2.65 ^{E4}	2.60 ^{E4}	N/A ug/g
95000088	B-104	8 DUP	S95T001855	0 W	@IC-01	SO4-02	SOLID	2.17 ^{E4}	1.98 ^{E4}	N/A ug/g
95000088	B-104	8 DUP	S95T001855	0 W	@IC-01	OXALATE2	SOLID	< 2.15 ^{E3}	< 2.14 ^{E3}	N/A ug/g

Final page for worklist #

2850

RL McCown 10/13/95
Analyst Signature Date

Analyst Signature Date

Data entry OK M. Gulead 10-17-95

Verified 10/18/95. James M. Faye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

344.4

LAB LEADER INFO	
Method:	KIT MET
Matrix:	SOLID
Test Code:	@C-01
Work List #:	2850
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109N9A
Spike Sample #:	1
Prepared By: RT STEELE	
Prepared Date: 10/13/95	
Chemist: J. FRYE	
Analyst: P. J. MCOWN	
Analysis Date: 10/13/95	
Time Complete: 03:27 AM	
Instrument Code: IC01	
Rerun: 0	
Sample Prep: H2O-DIG	
Sample Point: B-104	
Sample Type	
STANDARD	109N9A
SAMPLE 1	S95T001854
DUPLICATE 1	S95T001854/DUP
SAMPLE 2	S95T001855
DUPLICATE 2	S95T001855/DUP
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001854/SPK
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.083	<.647	<.699	<.596	<.678	<.150	<.496
Standard Data (µg/mL)	62.398	80.079	529.889	622.829	567.362	646.194	573.805	564.846
Sample 1 Data (µg/mL)	2.67E+01	2.25E+01	2.11E+01	2.84E+03	2.31E+02	2.04E+02	4.81E+00	<.496
Sample 1 Dilution Factor	26	26	26	101	26	26	26	26
Sample 1 Prep DF	10.111	10.111	10.111	10.111	10.111	10.111	10.111	10.111
Duplicate 1 Data (µg/mL)	2.30E+01	2.17E+01	2.08E+01	2.90E+03	2.21E+02	2.02E+02	5.01E+00	<.496
Duplicate 1 Dilution Factor	26	26	26	101	26	26	26	26
Duplicate 1 Prep DF	10.168	10.168	10.168	10.168	10.168	10.168	10.168	10.168
Sample 2 Data (µg/mL)	3.68E+01	2.88E+01	2.25E+01	3.13E+03	2.67E+02	2.18E+02	6.80E+00	<.496
Sample 2 Dilution Factor	41	41	41	101	41	41	41	41
Sample 2 Prep DF	10.046	10.046	10.046	10.046	10.046	10.046	10.046	10.046
Duplicate 2 Data (µg/mL)	1.13E+01	2.22E+01	2.20E+01	3.14E+03	2.02E+02	2.00E+02	6.65E+00	<.496
Duplicate 2 Dilution Factor	41	41	41	101	41	41	41	41
Duplicate 2 Prep DF	10.077	10.077	10.077	10.077	10.077	10.077	10.077	10.077
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	4.48E+01	4.22E+01	1.52E+02	3.44E+03	3.71E+02	3.67E+02	1.16E+02	1.43E+02
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.40	10.40	10.40	10.10	10.40	10.40	10.40	10.40
Std. Conc. (µg/mL)	69	79	533	614	548	631	578	526
Detection Limit	0.063	0.084	0.664	0.699	0.596	0.678	0.652	0.526
Matrix Detection Limit 1	1.62E+02	2.18E+02	1.42E+03	6.98E+03	1.63E+03	1.74E+03	1.68E+03	1.35E+03
Matrix Detection Limit 2	2.57E+02	3.43E+02	2.26E+03	7.03E+03	2.43E+03	2.77E+03	2.59E+03	2.15E+03
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = $\frac{((\text{Spike} + \text{Sample}) - (\text{Sample}))}{(\text{Total Volume})} \div \frac{(\text{Spike Vol.})}{(\text{Spike Std.})} \div (\text{Sample DF}) \times 100\%$

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

Duplicate Relative % Difference = $\frac{(\text{Sample} - \text{Duplicate})}{((\text{Sample} + \text{Duplicate}) / 2)} \times 100\%$

Less than Values are Calculated from the Detection Limit Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	108.8%	101.4%	99.4%	101.4%	103.9%	102.4%	98.8%	107.4%
Sample 1 in µg/g	2.64E+03	2.22E+03	2.06E+03	2.81E+06	2.28E+04	2.02E+04	4.76E+02	<1382.58
Duplicate 1 in µg/g	2.27E+03	2.14E+03	2.05E+03	2.85E+06	2.18E+04	1.99E+04	4.93E+02	<1345.00
Duplicate 1 RPD	16.4%	4.1%	2.1%	1.6%	4.8%	1.7%	3.5%	N/A
Sample 2 in µg/g	3.68E+03	2.87E+03	2.24E+03	3.11E+06	2.65E+04	2.17E+04	6.67E+02	<2146.73
Duplicate 2 in µg/g	1.13E+03	2.20E+03	2.19E+03	3.12E+06	2.00E+04	1.98E+04	6.60E+02	<2140.12
Duplicate 2 RPD	108.0%	26.3%	2.6%	0.2%	28.0%	9.0%	0.5%	N/A
Spike % Recovery	121.3%	98.8%	98.1%	97.7%	102.6%	103.3%	77.2%	108.4%

Date Entry by: <i>RT Steele</i>	Date: 10/13/95
Approved by: <i>John Frye</i>	Date: 10/17/95

Form DIONEX.WB1 Rev.1.3

344.5

**WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET**

ANION ANALYSIS ON DIONEX

SAMPLE #: S95T001854 & S95T001855

TEST CODE: @IC-01

INSTRUMENT: IC01

WORK LIST #: 2850

BATCH ID: N/A

ANALYST: P. J. MCOWN

ANALYSIS DATE: 10/13/95

SAMPLE POINT: B-104

SAMPLE PREP: H2O-DIG

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		105.8%	101.4%	99.4%	101.4%	103.9%	102.4%	99.8%	107.4%
S95T001854		2.64E+03	2.22E+03	2.09E+03	2.81E+05	2.28E+04	2.02E+04	4.76E+02	<1352.59
S95T001854/DUP		2.27E+03	2.14E+03	2.05E+03	2.85E+05	2.18E+04	1.99E+04	4.93E+02	<1345.00
Duplicate 1 RPD		15.4%	4.1%	2.1%	1.5%	4.8%	1.7%	3.5%	N/A
S95T001855		3.66E+03	2.87E+03	2.24E+03	3.11E+05	2.65E+04	2.17E+04	6.57E+02	<2146.73
S95T001855/DUP		1.13E+03	2.20E+03	2.19E+03	3.12E+05	2.00E+04	1.98E+04	6.60E+02	<2140.12
Duplicate 2 RPD		106.0%	26.3%	2.6%	0.2%	28.0%	9.0%	0.5%	N/A
S95T001854/SPK		121.3%	99.8%	98.1%	97.7%	102.8%	103.3%	77.2%	108.4%

NARRATIVE:

Analyst Comments:

Chemist Comments:

Form Completed By: *RLT/EL*

Date: 10/13/95

Chemist Approval: *James F. Felt*

Date: 10/17/95

344.6


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=====
Sample Name:   CCB                               Date: 10/13/1995 03:27:48
Data File    : C:\DX\DATA\95101381.D02
Method       : C:\DX\METHOD\KIT.MET
VCI Address: 1 System: 1 Inject#: 2             Detector: CDM-1
Analyst      :                               Column: AG4A/AS4A anion column/SRS
=====
  
```

```

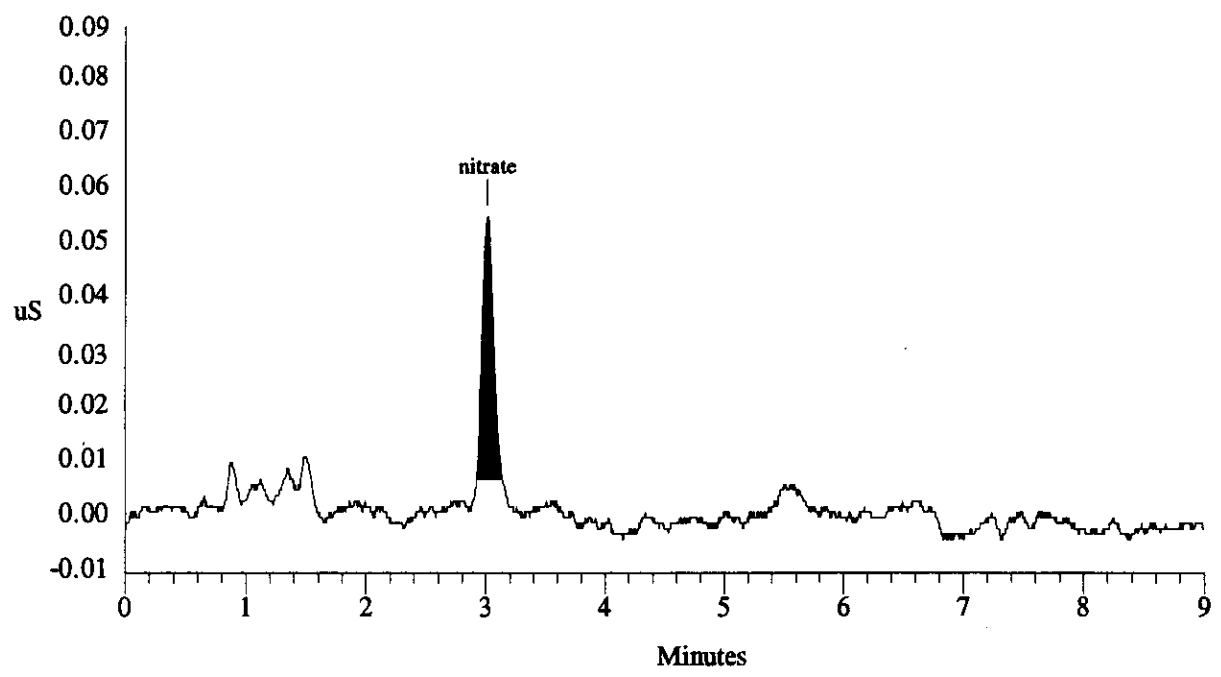
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    2700   5Hz   0.00  9.00         200
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.01	nitrate	0.059	48	301	1	-2.27
Totals			0.059	48	301		

DIRECT ELUENT R McCown 10/13/95

File: 95101381.D02 Sample: CCB



Sample Name: 109N9A CCV Date: 10/13/1995 03:39:38
 Data File : C:\DX\DATA\95101381.D03
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

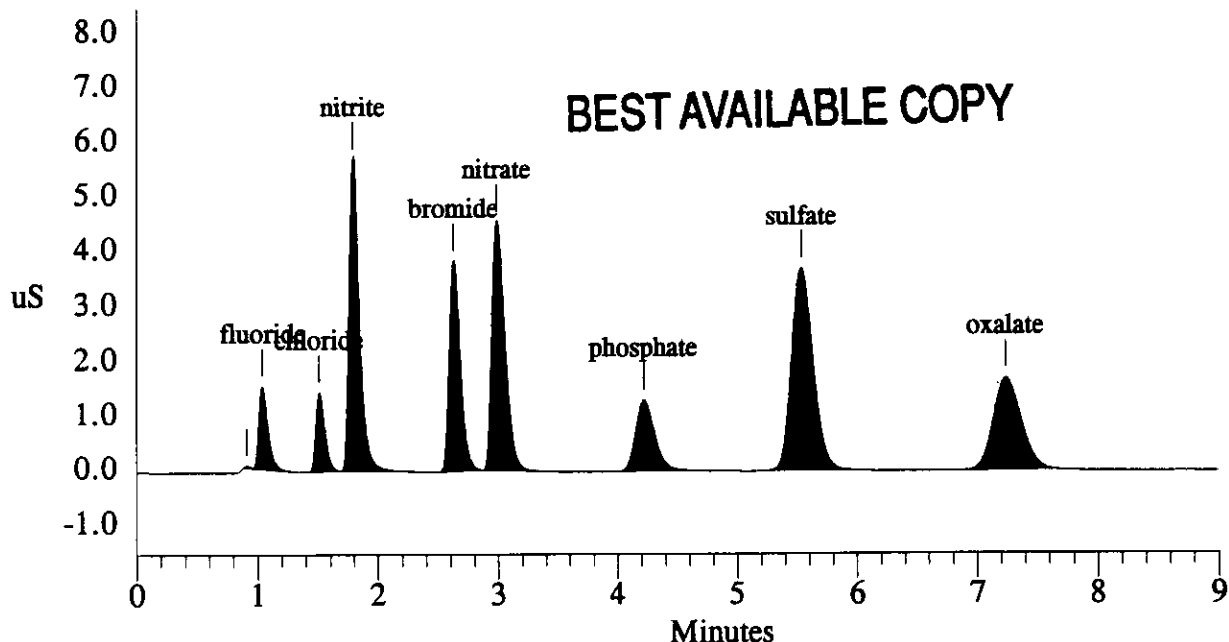
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	62.398	1521	7864	2	-1.89
3	1.51	chloride	80.078	1454	7550	1	-0.66
4	1.79	nitrite	529.889	5687	33921	1	-1.65
5	2.63	bromide	573.805	3836	24623	1	-2.59
6	2.99	nitrate	622.829	4542	34420	1	-2.92
7	4.22	phosphate	567.362	1303	14298	1	-5.80
8	5.54	sulfate	646.194	3698	46325	1	-6.26
9	7.24	oxalate	564.846	1699	27667	1	-6.94

Totals 3647.402 23741 196668

• 100mL - 10 mL *McCon* 10/13/95
 File: 95101381.D03 Sample: 109N9A CCV



WHC-SD-WM-DP-132, REV. 1

344.8

```

=====
Sample Name: PREP BLANK                      Date: 10/13/1995 03:52:41
Data File  : C:\DX\DATA\95101381.D04
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 4          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

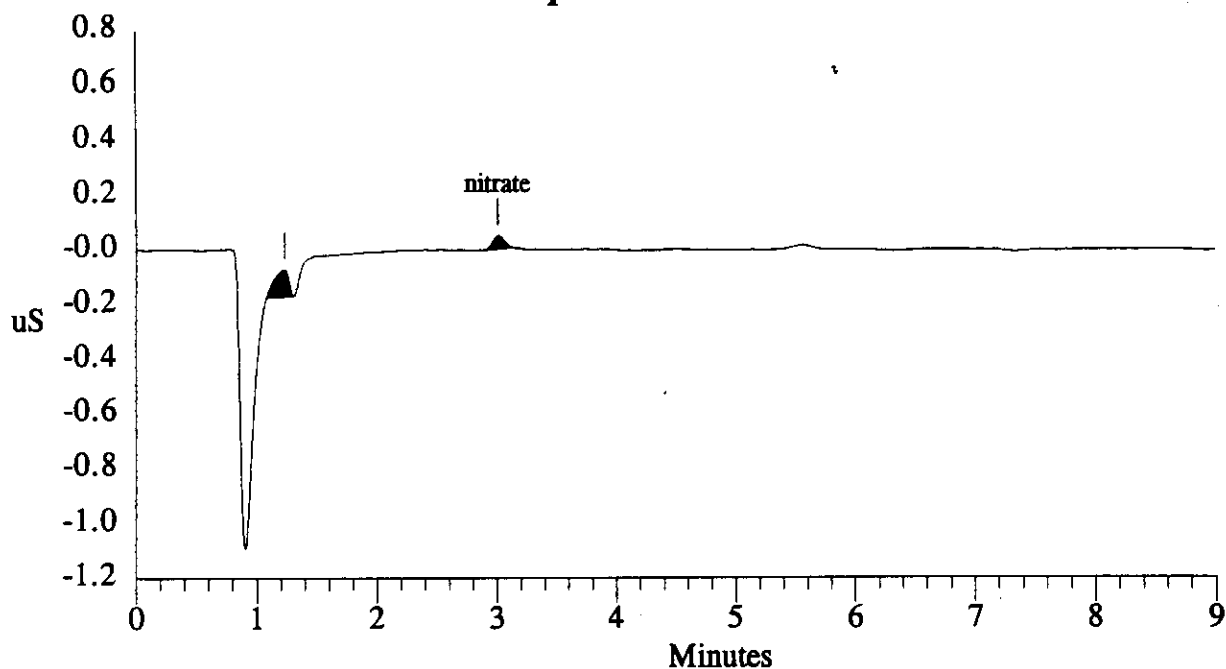
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    2700  5Hz   0.00  9.00      200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.23		0.000	99	822	1	
2	3.01	nitrate	0.061	47	313	1	-2.27
Totals			0.061	146	1135		

DIRECT *Pat McCown* 10/13/95
File: 95101381.D04 Sample: PREP BLANK



WHC-SD-WM-DP-137, REV. 1

344,9

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=====
Sample Name: S95T001854 SAMPLE                      Date: 10/13/1995 05:37:35
Data File  : C:\DX\DATA\95101381.D07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

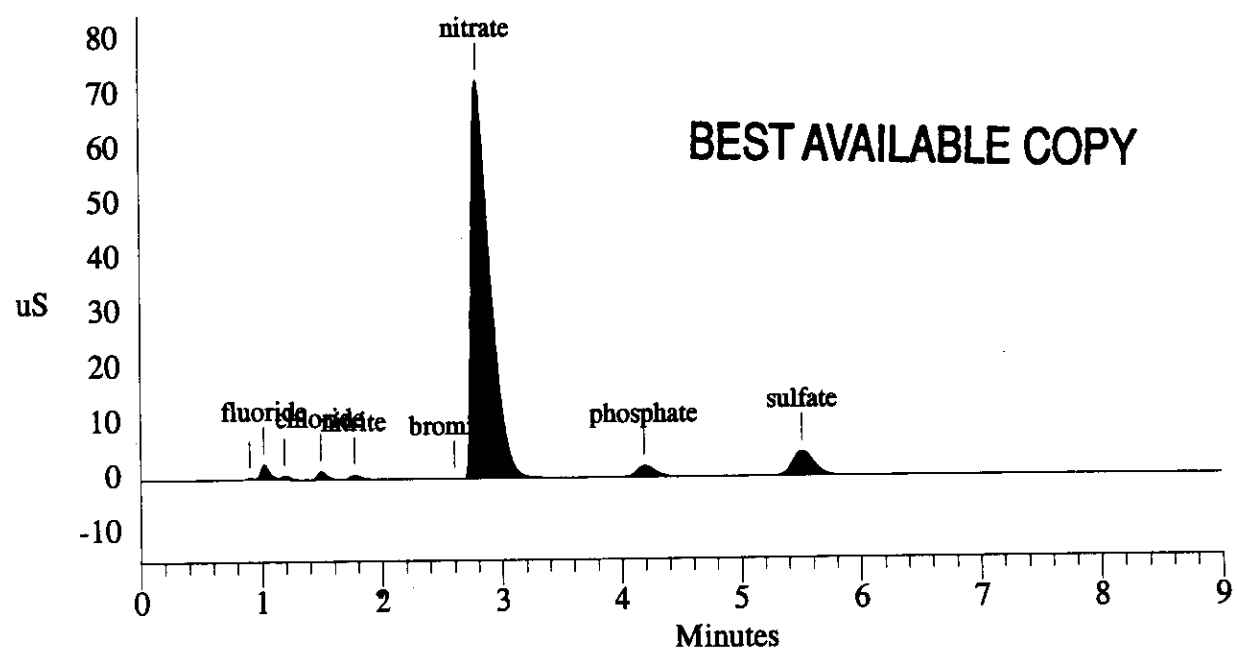
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          26    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	96	284	2	
2	1.02	fluoride	26.738	2685	13289	2	-3.77
3	1.19		0.000	682	3512	2	
4	1.49	chloride	22.494	1579	8231	1	-1.97
5	1.77	nitrite	21.126	836	5006	1	-2.75
6	2.60	bromide	4.813	73	338	1	-3.70
7	2.80	nitrate	2170.485	72724	779541	1	-9.09
8	4.19	phosphate	230.974	2084	23063	1	-6.47
9	5.51	sulfate	204.296	4532	57216	1	-6.77
Totals			2680.927	85290	890481		

• 400mL - 10mL *RT McCown* 10/13/95
File: 95101381.D07 Sample: S95T001854 SAMPLE



WHC-SD-WM-DP-137, REV. 1

34410

```

=====
Sample Name: S95T001854 SAMPLE                      Date: 10/13/1995 04:07:03
Data File  : C:\DX\DATA\95101381.D05
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 5                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

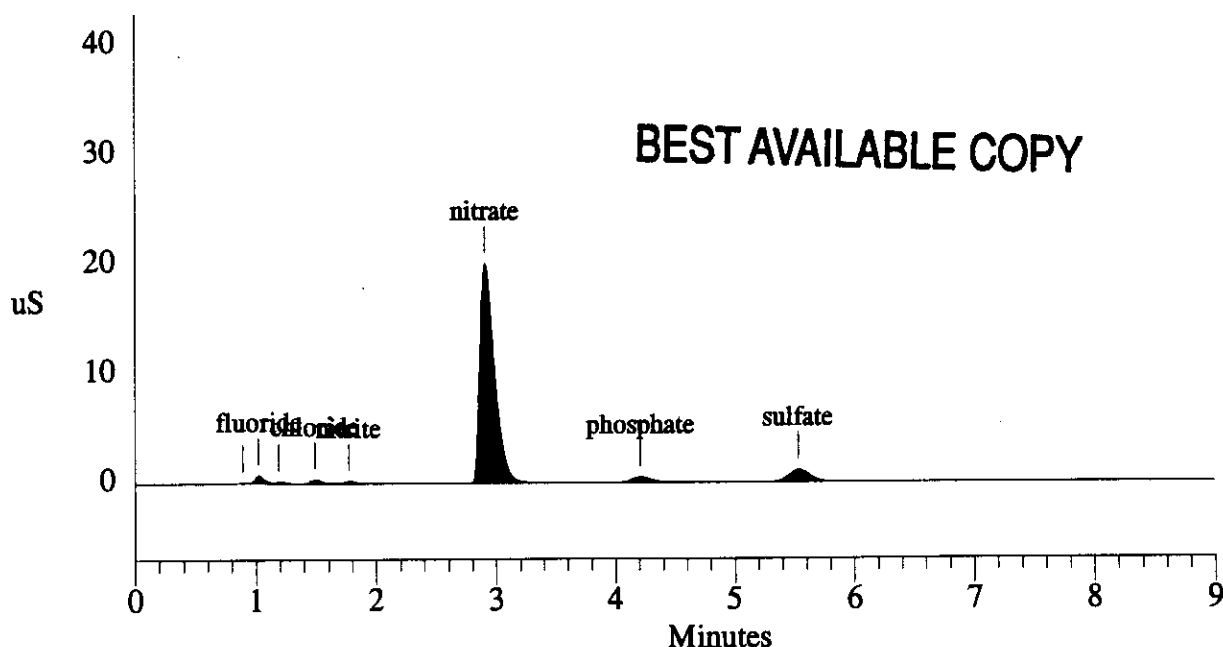
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	30.509	736	3791	2	-3.77
3	1.19		0.000	168	843	2	
4	1.49	chloride	20.075	393	2024	1	-1.97
5	1.77	nitrite	22.164	210	1196	1	-2.75
6	2.91	nitrate	2840.197	20089	169370	1	-5.52
7	4.21	phosphate	228.547	501	5531	1	-6.03
8	5.53	sulfate	200.470	1111	14030	1	-6.43
Totals			3341.962	23208	196785		

• 100 ML - 10 ML *Pat McCown* 10/13/95
File: 95101381.D05 Sample: S95T001854 SAMPLE



WHC-CD-WM-DP-137, REV. 1

Sample Name: S95T001854 DUPLICATE

Date: 10/13/1995 06:01:15

Data File : C:\DX\DATA\95101381.D09

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 9

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column/SRS

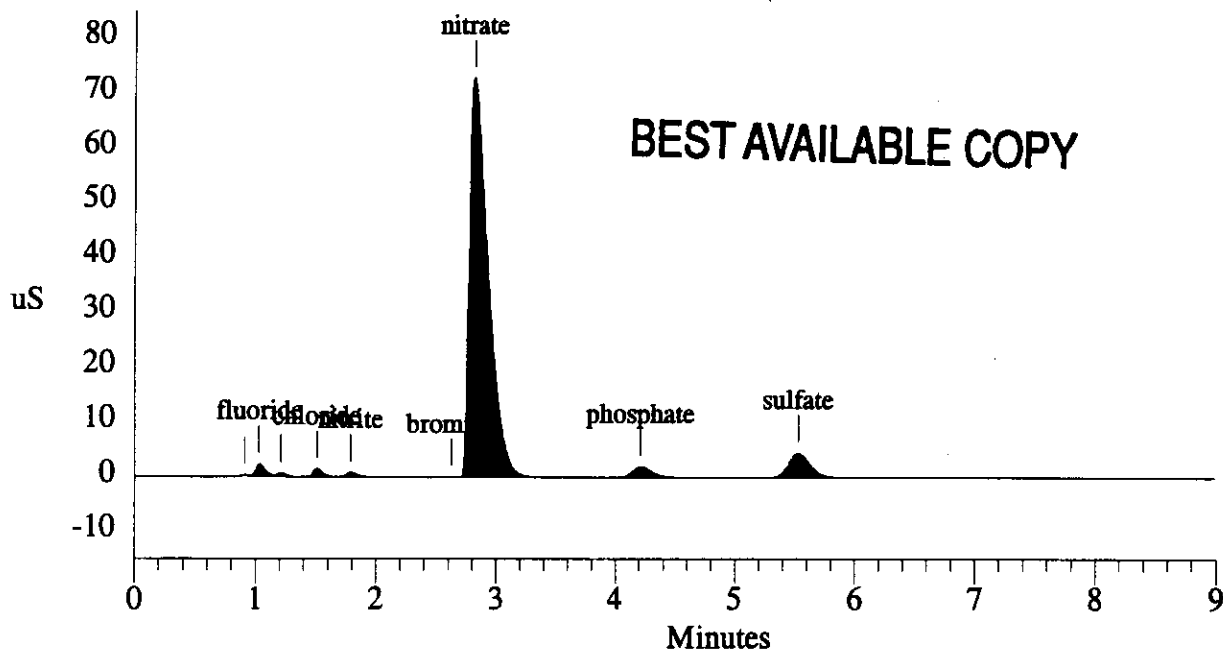
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	26	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	104	348	2	
2	1.03	fluoride	23.035	2233	11390	2	-2.83
3	1.21		0.000	692	3449	2	
4	1.51	chloride	21.716	1522	7949	1	-0.66
5	1.79	nitrite	20.794	842	4923	1	-1.65
6	2.63	bromide	5.012	76	371	1	-2.59
7	2.82	nitrate	2173.774	72968	783567	1	-8.44
8	4.21	phosphate	221.287	1983	22051	1	-6.03
9	5.53	sulfate	201.994	4484	56552	1	-6.43
Totals			2667.612	84905	890601		

400 mL - 10 mL R. McCown 10/13/95

File: 95101381.D09 Sample: S95T001854 DUPLICATE



WHC-SD-WM-DP-137, REV. 1

344.12

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=====
Sample Name: S95T001854 DUPLICATE          Date: 10/13/1995 05:50:42
Data File  : C:\DX\DATA\95101381.D08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

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-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

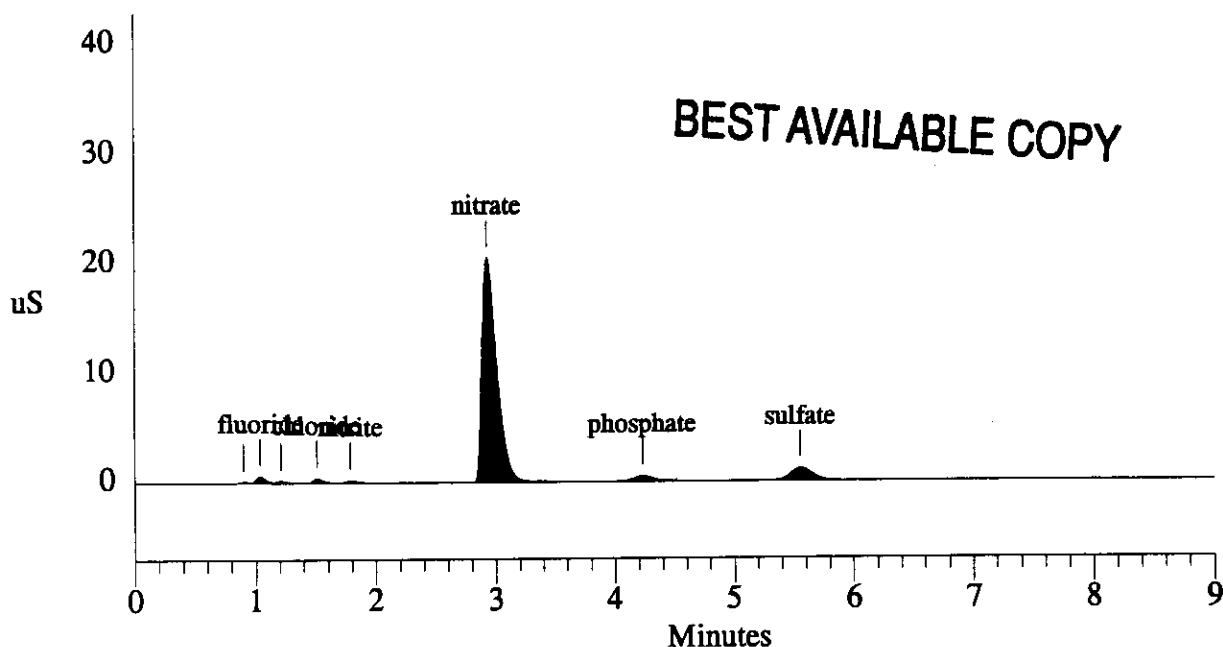
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	22.372	567	2764	2	-1.89
3	1.21		0.000	163	793	2	
4	1.51	chloride	20.775	404	2087	1	-0.66
5	1.79	nitrite	23.119	221	1256	1	-1.65
6	2.93	nitrate	2899.670	20545	173315	1	-4.87
7	4.23	phosphate	223.711	484	5408	1	-5.58
8	5.55	sulfate	204.753	1132	14336	1	-6.09
Totals			3394.400	23517	199960		

.100mL - 10mL R McEown 10/13/95

File: 95101381.D08 Sample: S95T001854 DUPLICATE



WHC-SD-V:M-DP-132, REV. 1

344.13

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=====
Sample Name: S95T001854 SPIKE                               Date: 10/13/1995 06:21:07
Data File  : C:\DX\DATA\95101381.D11
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11                        Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          26    2700   5Hz   0.00  9.00         200

```

***** Peak Report: All Peaks *****

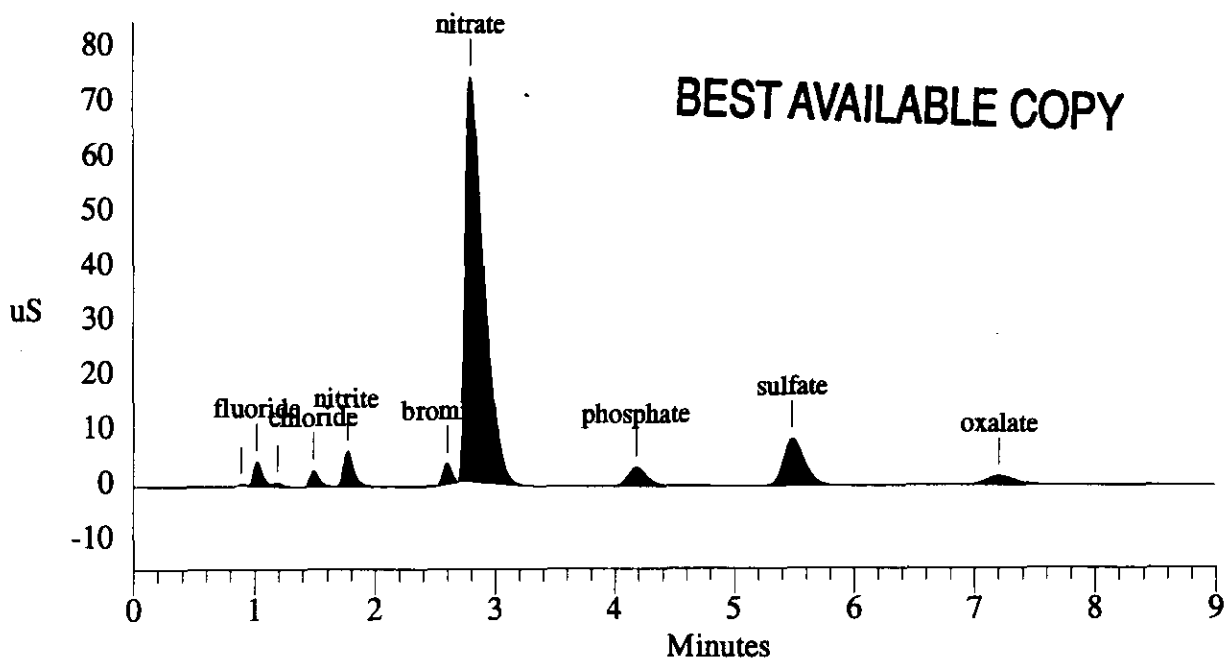
Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	144	517	2	
2	1.02	fluoride	44.627	4417	22739	3	-3.77
3	1.19		0.000	664	3284	4	
4	1.49	chloride	42.204	2936	15499	1	-1.97
5	1.77	nitrite	151.889	6441	37864	1	-2.75
6	2.60	bromide	115.771	3781	19119	1	-3.70
7	2.80	nitrate	2177.289	73892	787986	1	-9.09
8	4.18	phosphate	371.311	3465	38096	1	-6.70
9	5.49	sulfate	367.241	8496	105267	1	-7.11
10	7.21	oxalate	142.607	1642	27115	1	-7.33

```

-----
Totals          3412.939          105879          1057486

```

.400ML < 9.9ML ELUENT
.100ML STD # 109N9A AS SPIKE *Bl McCann 10/13/95*
File: 95101381.D11 Sample: S95T001854 SPIKE



WHC-SD-WM-DP- 137, REV. 1

344.14


```

=====
Sample Name: S95T001854 SPIKE                               Date: 10/13/1995 06:11:17
Data File  : C:\DX\DATA\95101381.D10
Method     : C:\DX\METHOD\KIT.MET
VCI Address: 1 System: 1 Inject#: 10                        Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====

```

```

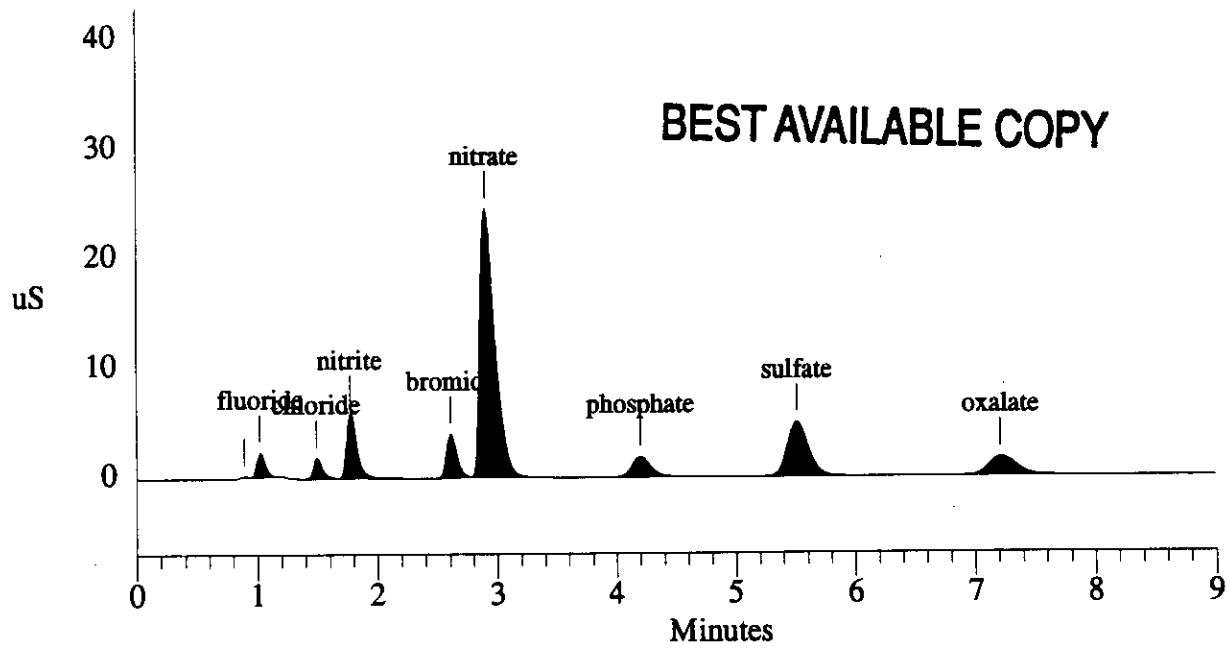
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00         200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	84.251	2198	10704	1	-3.77
3	1.49	chloride	101.300	1842	9536	1	-1.97
4	1.77	nitrite	543.599	5911	34818	1	-2.75
5	2.61	bromide	564.163	3950	24194	1	-3.33
6	2.90	nitrate	3439.799	24495	210111	1	-5.84
7	4.20	phosphate	803.565	1841	20550	1	-6.25
8	5.51	sulfate	852.798	4930	61619	1	-6.77
9	7.21	oxalate	566.274	1694	27740	1	-7.33
Totals			6955.748	46862	399272		

• 100ML ← 9.9ML ELUENT
 • 100ML STD # 109N9A AS SPIKE R. McCown 10/13/95
File: 95101381.D10 Sample: S95T001854 SPIKE



WHC-SD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001855 SAMPLE                      Date: 10/13/1995 06:46:25
Data File  : C:\DX\DATA\95101381.D13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 13              Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           41    2700   5Hz   0.00   9.00         200
-----

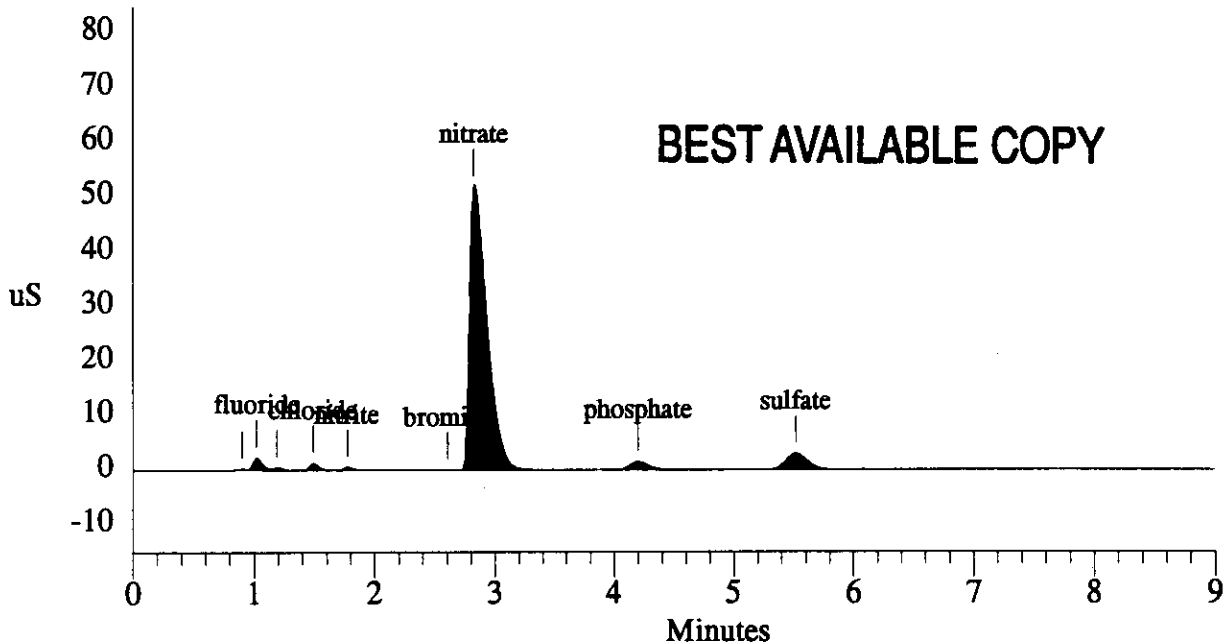
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	74	227	2	
2	1.02	fluoride	36.782	2231	11538	2	-3.77
3	1.19		0.000	480	2422	2	
4	1.49	chloride	28.842	1291	6710	1	-1.97
5	1.77	nitrite	22.548	570	3317	1	-2.75
6	2.61	bromide	6.598	43	233	1	-3.33
7	2.83	nitrate	2830.426	51944	523852	1	-8.12
8	4.20	phosphate	266.675	1496	16655	1	-6.25
9	5.52	sulfate	218.046	3039	38337	1	-6.60
Totals			3409.917	61169	603291		

.250 ML - 10 ML *Re McCown* 10/13/95

File: 95101381.D13 Sample: S95T001855 SAMPLE



WHC-SD-WM-DP-137, REV. 1

344.16

```

=====
Sample Name: S95T001855 SAMPLE                      Date: 10/13/1995 06:33:50
Data File  : C:\DX\DATA\95101381.D12
Method     : C:\DX\METHOD\KIT.MET
\CI Address: 1 System: 1 Inject#: 12                 Detector: CDM-1
analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00  9.00         200

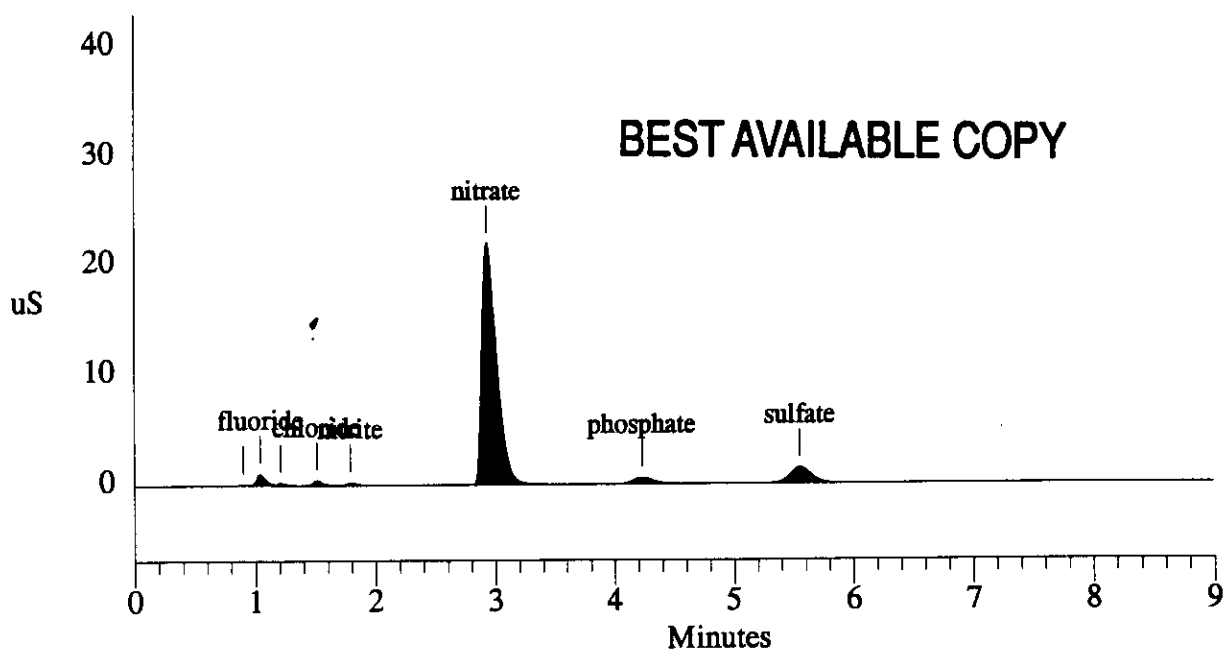
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	fluoride	40.207	997	5021	3	-1.89
3	1.21		0.000	181	891	4	
4	1.51	chloride	22.181	426	2215	1	-0.66
5	1.79	nitrite	24.850	232	1366	1	-1.65
6	2.93	nitrate	3126.662	21925	188560	1	-4.87
7	4.23	phosphate	260.224	575	6341	1	-5.58
8	5.55	sulfate	253.417	1422	17818	1	-6.09
Totals			3727.541	25757	222214		

.100 mL - 10 mL *RJ McCown* 10/13/95

File: 95101381.D12 Sample: S95T001855 SAMPLE



WHC-CD-WM-DP- 137, REV. 1

344.17

```

=====
Sample Name: S95T001855 DUPLICATE                      Date: 10/13/1995 06:58:38
Data File  : C:\DX\DATA\95101381.D14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14                      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

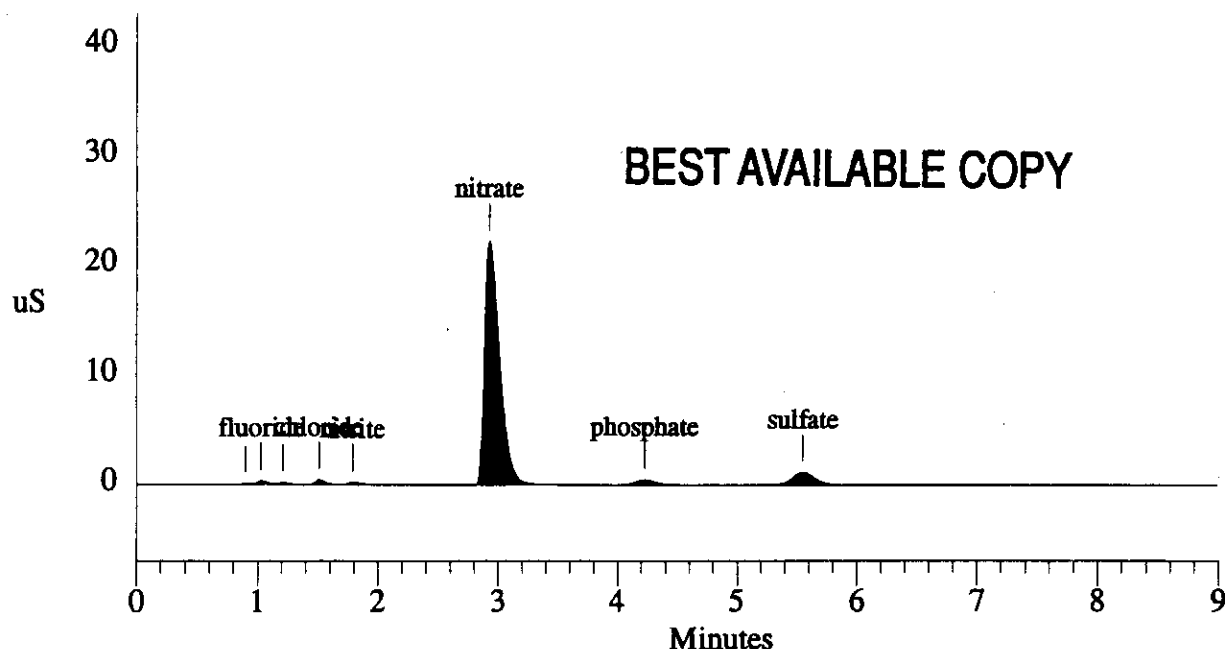
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.03	fluoride	12.485	298	1524	2	-2.83
3	1.21		0.000	178	857	2	
4	1.51	chloride	22.289	436	2225	1	-0.66
5	1.79	nitrite	24.363	232	1335	1	-1.65
6	2.93	nitrate	3142.942	22220	189666	1	-4.87
7	4.23	phosphate	205.819	447	4951	1	-5.58
8	5.55	sulfate	205.800	1138	14411	1	-6.09
Totals			3613.698	24950	214970		

.100ML - 10ML *R. McCown* 10/13/95

File: 95101381.D14 Sample: S95T001855 DUPLICATE



WHC-SD-WM-DP-132, REV. 1

344.18

```

=====
Sample Name: S95T001855 DUPLICATE                      Date: 10/13/1995 07:09:50
Data File  : C:\DX\DATA\95101381.D15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15                      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41   2700  5Hz   0.00   9.00          200

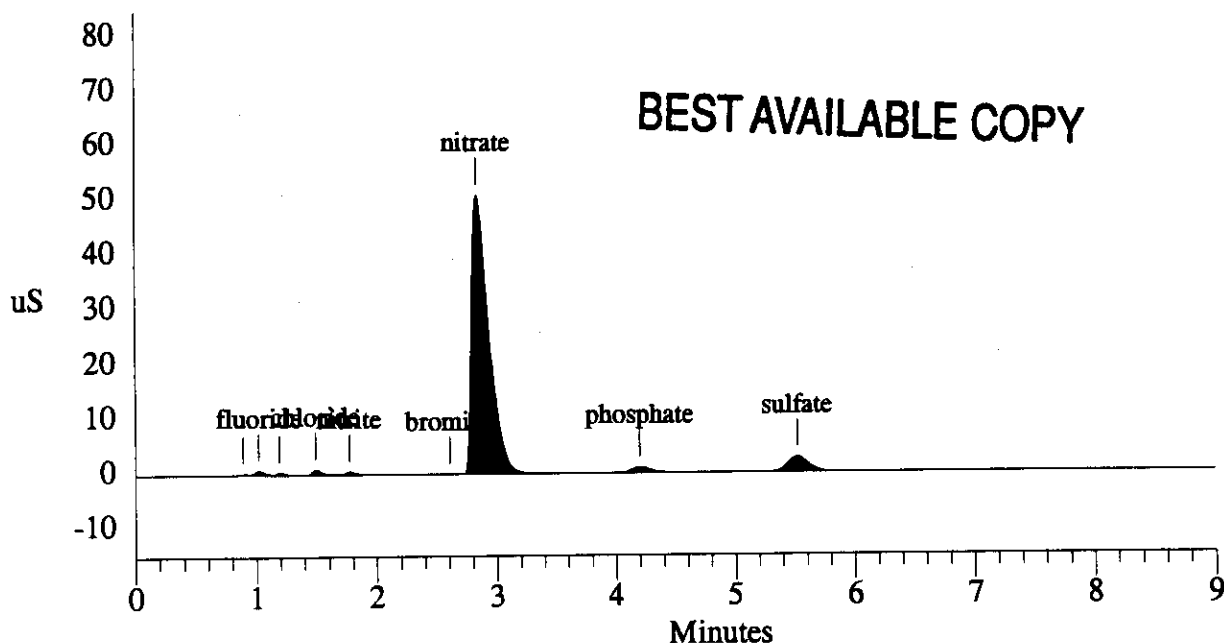
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	92	352	2	
2	1.02	fluoride	11.337	701	3465	2	-3.77
3	1.19		0.000	420	2070	2	
4	1.49	chloride	22.215	1002	5199	1	-1.97
5	1.77	nitrite	22.040	549	3237	1	-2.75
6	2.61	bromide	6.649	43	239	1	-3.33
7	2.84	nitrate	2775.468	50998	507654	1	-7.79
8	4.20	phosphate	201.708	1120	12456	1	-6.25
9	5.52	sulfate	199.850	2802	35070	1	-6.60
Totals			3239.267	57726	569742		

.250ML - 10ML *McCown* 10/13/95

File: 95101381.D15 Sample: S95T001855 DUPLICATE



WHC-SD-WM-DP- 137, REV. 1

LABCORE Data Entry Template for Worklist#

2851

Analyst: EE Instrument: IC01 IC01 Book # 109N9-17

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests, need Br. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			②IC-QC F-QC	QC		2.062	N/A	ug/mL
		1 CCB			②IC-QC CL-QC	QC		2.083	N/A	ug/mL
		1 CCB			②IC-QC NO2-QC	QC		2.547	N/A	ug/mL
		1 CCB			②IC-QC BR-QC	QC		2.150	N/A	ug/mL
		1 CCB			②IC-QC NO3-QC	QC		2.699	N/A	ug/mL
		1 CCB			②IC-QC PO4-QC	QC		2.596	N/A	ug/mL
		1 CCB			②IC-QC SO4-QC	QC		2.678	N/A	ug/mL
		1 CCB			②IC-QC OXALATQC	QC		2.496	N/A	ug/mL
		2 CCV			②IC-QC F-QC	QC		60.3	N/A	ug/mL
		2 CCV			②IC-QC CL-QC	QC		80.1	N/A	ug/mL
		2 CCV			②IC-QC NO2-QC	QC		537.9	N/A	ug/mL
		2 CCV			②IC-QC BR-QC	QC		597.8	N/A	ug/mL
		2 CCV			②IC-QC NO3-QC	QC		629.7	N/A	ug/mL
		2 CCV			②IC-QC PO4-QC	QC		574.5	N/A	ug/mL
		2 CCV			②IC-QC SO4-QC	QC		665.5	N/A	ug/mL
		2 CCV			②IC-QC OXALATQC	QC		582.7	N/A	ug/mL
		3 BLNK-PREP			②IC-01 F-02	SOLID		2.062	N/A	ug/g
		3 BLNK-PREP			②IC-01 CL-02	SOLID		2.083	N/A	ug/g

CCC - spike in this std has been running at high end of range. New std needed.
Re-run not necessary. SKM 10-10-95 (per JMF)

Data Entry Comments:

S95T001856 12.3910 12.4240

LMCS 109N9-A .1mL - 10mL S45T001857 14.2400 14.2280

SPIKE 109N9-A .1mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S95T001856 has organic acid interference with F, causing bad RPD. The Br spike is bad due to integration problems caused by the very large NO3 peak. JMF 10/17/95

LABCORE Data Entry Template for Worklist#

2851

XJP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		3 BLNK-PREP			QIC-01 NO2-02	SOLID		<u>2.547</u>	<u>N/A</u>	ug/g
		3 BLNK-PREP			QIC-01 BR-02	SOLID		<u>2.150</u>	<u>N/A</u>	ug/g
		3 BLNK-PREP			QIC-01 NO3-02	SOLID		<u>2.699</u>	<u>N/A</u>	ug/g
		3 BLNK-PREP			QIC-01 PO4-02	SOLID		<u>2.596</u>	<u>N/A</u>	ug/g
		3 BLNK-PREP			QIC-01 SO4-02	SOLID		<u>2.678</u>	<u>N/A</u>	ug/g
		3 BLNK-PREP			QIC-01 OXALATE2	SOLID		<u>2.496</u>	<u>N/A</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 F-02	SOLID	<u>N/A</u>	<u>8.05e2</u>	<u>1.05e2</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 CL-02	SOLID	<u>N/A</u>	<u>2.28e3</u>	<u>1.41e2</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 NO2-02	SOLID	<u>N/A</u>	<u>2.18e3</u>	<u>9.27e2</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 BR-02	SOLID	<u>N/A</u>	<u>2.54e2</u>	<u>2.54e2</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 NO3-02	SOLID	<u>N/A</u>	<u>3.07e5</u>	<u>5.70e3</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 PO4-02	SOLID	<u>N/A</u>	<u>2.12e4</u>	<u>1.0e3</u>	ug/g
50000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 SO4-02	SOLID	<u>N/A</u>	<u>2.09e4</u>	<u>1.15e3</u>	ug/g
95000088	B-104	4 SAMPLE	S95T001856	0 W	QIC-01 OXALATE2	SOLID	<u>N/A</u>	<u>2.84e2</u>	<u>8.41e2</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 F-02	SOLID	<u>8.05e2</u>	<u>1.94e3</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 CL-02	SOLID	<u>2.28e3</u>	<u>2.14e3</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 NO2-02	SOLID	<u>2.18e3</u>	<u>2.03e3</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 BR-02	SOLID	<u>2.54e2</u>	<u>2.54e2</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 NO3-02	SOLID	<u>3.07e5</u>	<u>2.74e5</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 PO4-02	SOLID	<u>2.12e4</u>	<u>2.33e4</u>	<u>N/A</u>	ug/g
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 SO4-02	SOLID	<u>2.09e4</u>	<u>2.00e4</u>	<u>N/A</u>	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.21

LABCORE Data Entry Template for Worklist#

2851

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001856	0 W	QIC-01 OXALATE2	SOLID	28.4e2	28.4e2	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 F-02	SOLID	100	108.7	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 CL-02	SOLID		102.7	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 NO2-02	SOLID		97.9	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 BR-02	SOLID		161.7 gm/L 94.6 10/17/95	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 NO3-02	SOLID		94.6 gm/L 105.0 10/17/95	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 PO4-02	SOLID		105.0 gm/L 115.1 10/17/95	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 SO4-02	SOLID		115.1	N/A	ug/g
95000088	B-104	6 SPK	S95T001856	0 W	QIC-01 OXALATE2	SOLID		107.4	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 F-02	SOLID	N/A	2.88e3	9.14e1	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 CL-02	SOLID	N/A	2.09e3	12.2e2	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 NO2-02	SOLID	N/A	2.00e3	8.06e2	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 BR-02	SOLID	N/A	2.21e2	2.21e2	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 NO3-02	SOLID	N/A	2.71e5	4.96e3	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 PO4-02	SOLID	N/A	2.32e4	8.79e2	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 SO4-02	SOLID	N/A	1.98e4	9.99e2	ug/g
95000088	B-104	7 SAMPLE	S95T001857	0 W	QIC-01 OXALATE2	SOLID	N/A	7.31e2	7.31e2	ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01 F-02	SOLID	2.88e3	2.69e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01 CL-02	SOLID	2.09e3	2.12e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01 NO2-02	SOLID	2.00e3	2.03e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01 BR-02	SOLID	2.21e2	2.21e2	N/A	ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01 NO3-02	SOLID	2.71e5	2.75e5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.22

LABCORE Data Entry Template for Worklist#

2851

REP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01	PO4-02	SOLID	2.32e4	2.32e4	N/A ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01	SO4-02	SOLID	1.98e4	2.02e4	N/A ug/g
95000088	B-104	8 DUP	S95T001857	0 W	QIC-01	OXALATE2	SOLID	<7.31e2	<7.31e2	N/A ug/g

Final page for worklist #

2851

E.H. Cohen 10-13-95
Analyst Signature Date

Analyst Signature Date

Ready for Entry 10/17/95 Jannette

Lab Entry J.K. McFarland 10-18-95

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

344.23

**WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX**

SAMPLE #: S95T001856 & S95T001857 TEST CODE: @ic-01 INSTRUMENT: IC01 WORK LIST #: 2851 BATCH ID:	ANALYST: Ed Colvin ANALYSIS DATE: 10/13/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	---

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		102.2%	101.4%	100.9%	102.6%	105.2%	105.5%	104.0%	110.8%
S95T001856		8.06E+02	2.28E+03	2.18E+03	3.07E+05	2.12E+04	2.09E+04	<254.22	<840.61
S95T001856dup		1.94E+03	2.14E+03	2.03E+03	2.74E+05	2.33E+04	2.00E+04	<253.54	<838.38
Duplicate 1 RPD		82.7%	6.1%	7.2%	11.1%	9.6%	4.1%	N/A	N/A
S95T001857		2.88E+03	2.09E+03	2.00E+03	2.71E+05	2.32E+04	1.98E+04	<221.11	<731.15
S95T001857dup		2.89E+03	2.12E+03	2.03E+03	2.76E+05	2.32E+04	2.02E+04	<221.39	<732.08
Duplicate 2 RPD		6.8%	1.5%	1.2%	1.2%	0.2%	1.9%	N/A	N/A
S95T001856spk		108.7%	102.7%	97.9%	94.6%	105.0%	115.1%	161.7%	107.4%

NARRATIVE:

Analyst Comments:

Chemist Comments:

Form Completed By: <i>[Signature]</i>	Date: 10/17/95
Chemist Approval: <i>[Signature]</i>	Date: 10/17/95

344.24

WMO-02-WM-DP-137, REV. 1

LAB LEADER INFO	
Method:	LA-533-106 D-1
Matrix:	solid
Test Code:	QIC-01
Work List #:	2851
Batch #:	
Result Units	
(µg/g or µg/mL):	µg/g
Spike Book Number:	109NBA
Spike Sample #:	1
Prepared By:	Jann Frye
Prepared Date:	10/17/95
Chemist:	Jann Frye
Analyst:	Ed Colvin
Analysis Date:	10/13/95
Time Complete:	11:30 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	water digest
Sample Point:	B-104
Sample Type	
STANDARD	109NBA
SAMPLE 1	S95T001856
DUPLICATE 1	S95T001856dup
SAMPLE 2	S95T001857
DUPLICATE 2	S95T001857dup
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T001856spk
SPIKE DUPLICATE	



TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.062	<.063	<.647	<.899	<.896	<.678	<.150	<.496
Standard Data (µg/mL)	80.3	80.1	637.9	629.7	674.6	666.6	697.9	582.7
Sample 1 Data (µg/mL)	9.97E+00	2.82E+01	2.71E+01	3.80E+03	2.63E+02	2.59E+02	<.150	<.496
Sample 1 Dilution Factor	21	21	21	101	21	21	21	21
Sample 1 Prep DF	12.391	12.391	12.391	12.391	12.391	12.391	12.391	12.391
Duplicate 1 Data (µg/mL)	2.41E+01	2.86E+01	2.82E+01	3.41E+03	2.90E+02	2.48E+02	<.150	<.496
Duplicate 1 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 1 Prep DF	12.424	12.424	12.424	12.424	12.424	12.424	12.424	12.424
Sample 2 Data (µg/mL)	4.11E+01	2.97E+01	2.86E+01	3.86E+03	3.30E+02	2.82E+02	<.150	<.496
Sample 2 Dilution Factor	21	21	21	101	21	21	21	21
Sample 2 Prep DF	14.246	14.246	14.246	14.246	14.246	14.246	14.246	14.246
Duplicate 2 Data (µg/mL)	3.83E+01	3.02E+01	2.89E+01	3.91E+03	3.31E+02	2.87E+02	<.150	<.496
Duplicate 2 Dilution Factor	21	21	21	101	21	21	21	21
Duplicate 2 Prep DF	14.228	14.228	14.228	14.228	14.228	14.228	14.228	14.228
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	2.28E+01	4.44E+01	1.31E+02	4.38E+03	3.77E+02	4.04E+02	1.86E+02	1.13E+02
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.60	10.60	10.60	10.10	10.60	10.60	10.60	10.60
Std. Conc. (µg/mL)	89	79	633	614	646	631	676	526
Detection Limit	0.062	0.063	0.547	0.699	0.696	0.678	0.150	0.496
Matrix Detection Limit 1	1.05E+02	1.41E+02	9.27E+02	6.70E+03	1.01E+03	1.16E+03	2.84E+02	8.41E+02
Matrix Detection Limit 2	9.14E+01	1.22E+02	8.06E+02	4.96E+03	8.79E+02	9.99E+02	2.21E+02	7.31E+02
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR

Spike Recovery = $\frac{((\text{Spike} + \text{Sample}) - (\text{Sample})) \cdot (\text{Total Volume})}{(\text{Spike Vol.}) \cdot (\text{Spike Std.}) \cdot (\text{Sample DF})} \cdot 100\%$
 Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
 Duplicate Relative % Difference = $\frac{((\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)) \cdot 100\%}{\text{Less than Values are Calculated from the Detection Limit} \cdot \text{Dilution Factor}}$

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	102.2%	101.4%	106.9%	102.6%	106.2%	105.6%	104.0%	110.8%
Sample 1 in µg/g	8.08E+02	2.28E+03	2.18E+03	3.07E+06	2.12E+04	2.09E+04	<264.22	<840.61
Duplicate 1 in µg/g	1.94E+03	2.14E+03	2.03E+03	2.74E+06	2.33E+04	2.00E+04	<283.64	<838.38
Duplicate 1 RPD	82.7%	8.1%	7.2%	11.1%	9.6%	4.1%	N/A	N/A
Sample 2 in µg/g	2.88E+03	2.09E+03	2.00E+03	2.71E+06	2.32E+04	1.98E+04	<221.11	<731.18
Duplicate 2 in µg/g	2.69E+03	2.12E+03	2.03E+03	2.76E+06	2.32E+04	2.02E+04	<221.39	<732.08
Duplicate 2 RPD	6.8%	1.8%	1.2%	1.2%	0.2%	1.9%	N/A	N/A
Spike % Recovery	108.7%	102.7%	97.9%	94.6%	106.0%	118.1%	181.7%	107.4%

Date Entry by:	<i>Jann Frye</i>	Date:	10/17/95
Approved by:	<i>Jann Frye</i>	Date:	10/17/95

Form DIONEX.WB1 Rev. 1.3

344.25

Data Reprocessed On 10/13/1995 10:57:42

Sample Name: 109N9-A STD .1-10 Date: 10/13/1995 08:58:04
Data File : C:\DX\DATA\95101301.D03
Method : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
Analyst : *PNL* Column: AG4A/AS4A anion column

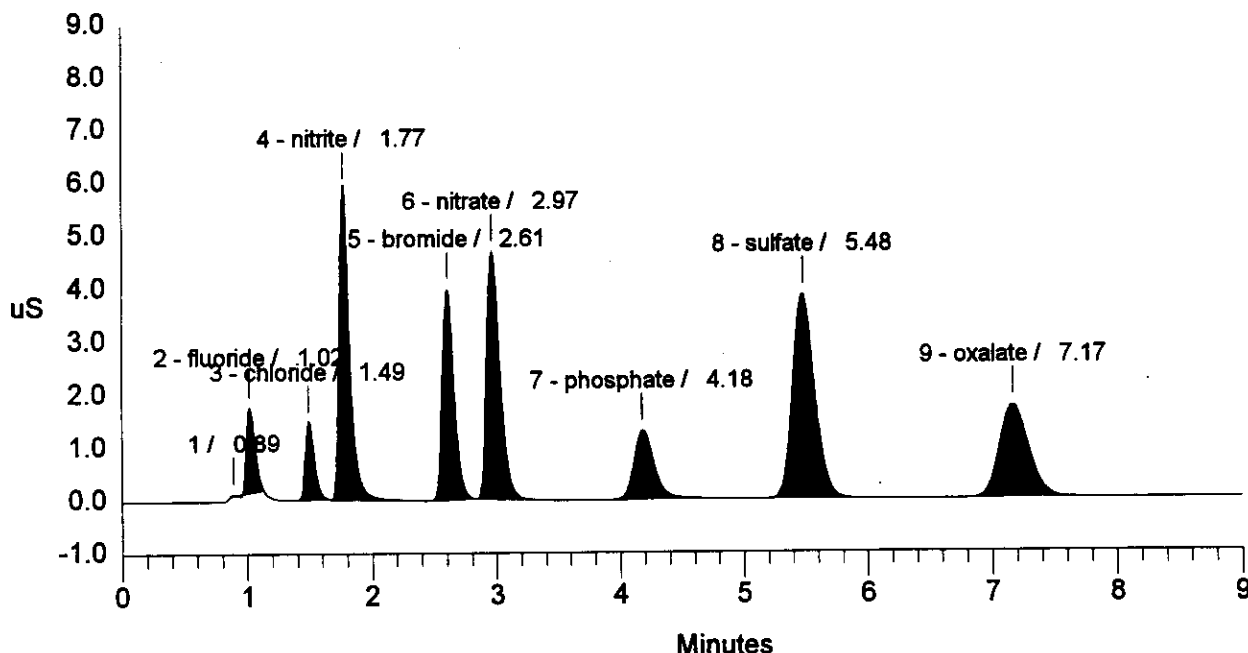
10-13-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.02	fluoride	60.301	1611	7594	2	-3.77
3	1.49	chloride	80.147	1478	7557	1	-3.25
4	1.77	nitrite	537.990	5870	34451	1	-3.28
5	2.61	bromide	597.829	3984	25694	1	-2.97
6	2.97	nitrate	629.759	4683	34810	1	-3.26
7	4.18	phosphate	574.574	1302	14487	1	-5.22
8	5.48	sulfate	665.517	3867	47746	1	-6.00
9	7.17	oxalate	582.773	1751	28580	1	-6.15
Totals			3728.890	24545	200919		

File: 95101301.D03 Sample: 109N9-A STD .1-10



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 344.26 TO 344.38

344.26

WHC-CD-WM-DP-137, REV. 1

```

=====
Sample Name: PREP BLANK                      Date: 10/13/1995 08:46:20
Data File  : C:\DX\DATA\95101301.D02
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 2        Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

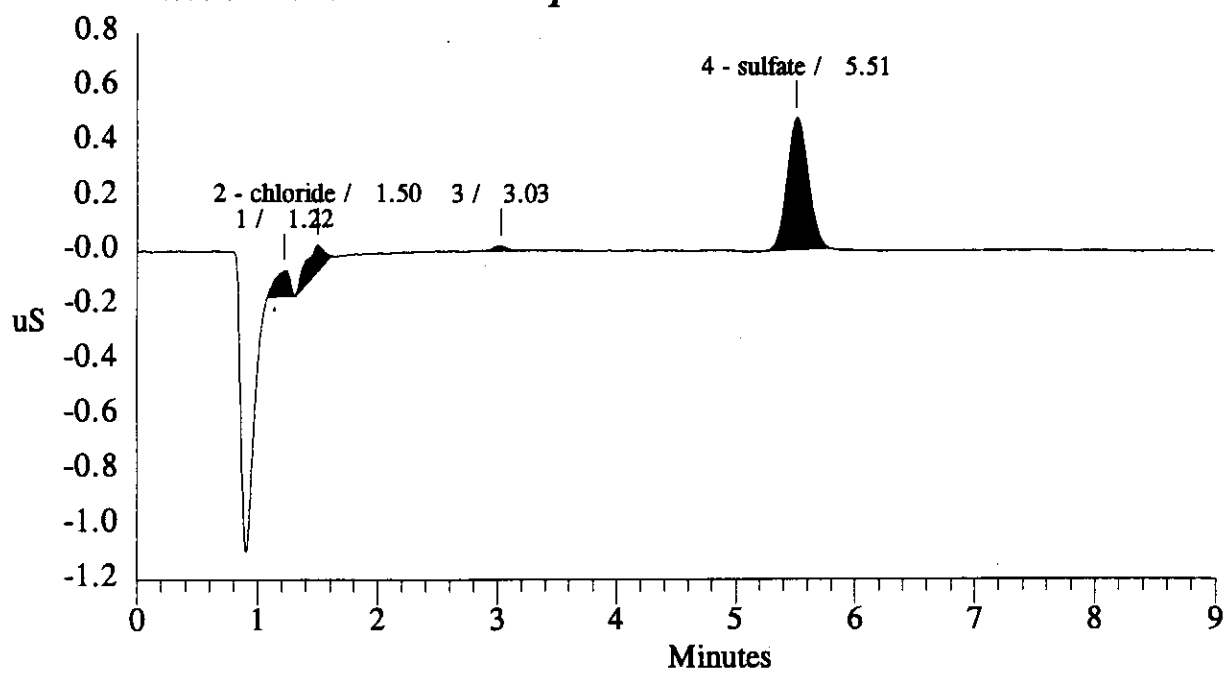
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1  2700  5Hz   0.00  9.00      200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.22		0.000	93	783	1	
2	1.50	chloride	0.096	95	1082	1	-2.60
4	5.51	sulfate	0.851	477	5878	1	-5.49
Totals			0.947	665	7742		

File: 95101301.D02 Sample: PREP BLANK



WHC-JD-WM-DP- 137, REV. 1

```

=====
Sample Name: INSTR BLANK                      Date: 10/13/1995 08:34:37
Data File  : C:\DX\DATA\95101301.D01
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1   System: 1   Inject#: 1       Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====

```

```

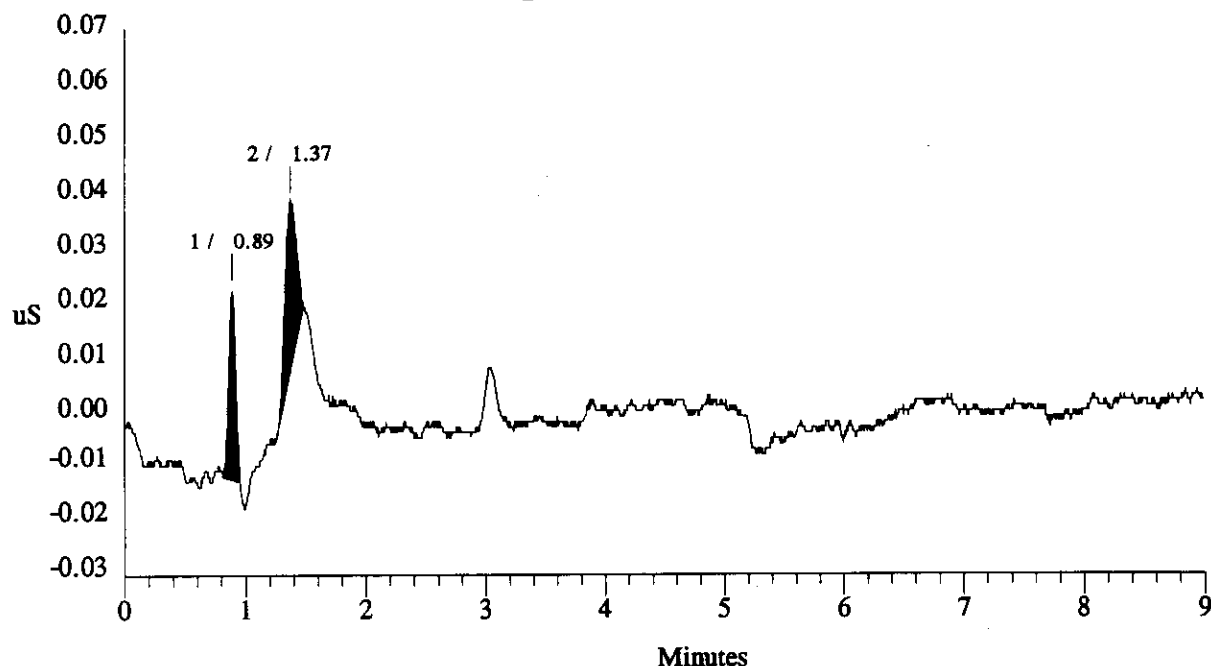
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  2700  5Hz  0.00  9.00          200

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.37		0.000	31	201	1	
Totals			0.000	31	201		

File: 95101301.D01 Sample: INSTR BLANK



WFO-CD-WM-DP-132, REV. 1

344.28

```

=====
Sample Name: S95T001856 .5-10          Date: 10/13/1995 09:21:32
Data File  : C:\DX\DATA\95101301.D05
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1   System: 1   Inject#: 5           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

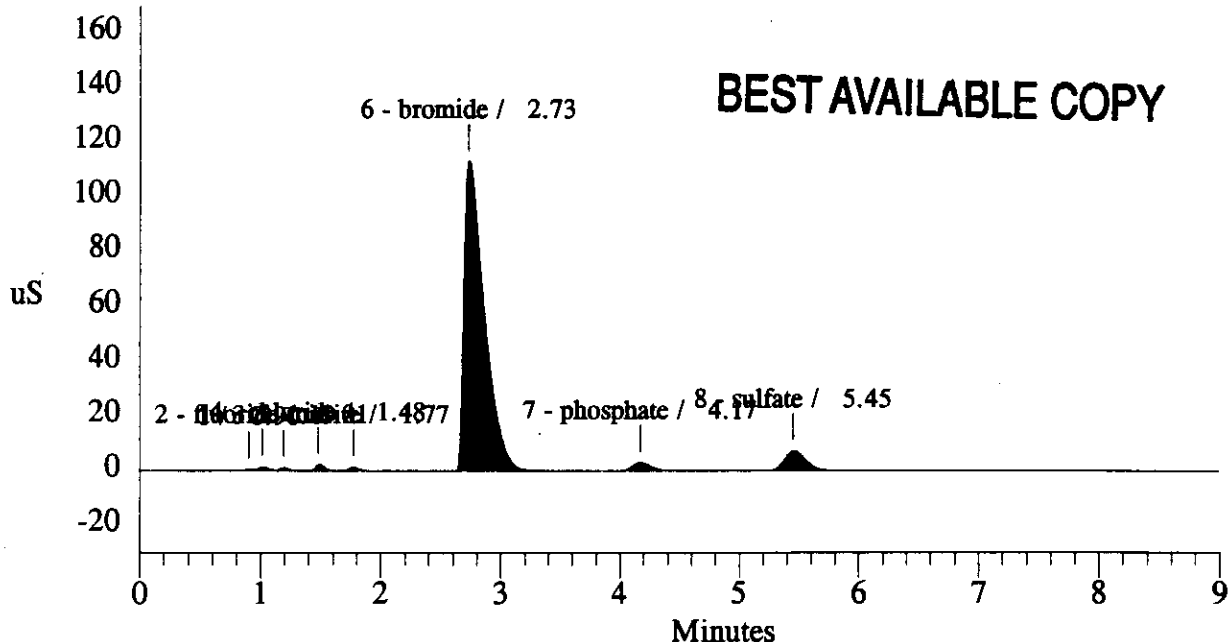
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  2700  5Hz  0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	203	700	2	
2	1.01	fluoride	9.979	1201	6014	2	-4.72
3	1.19		0.000	1070	5154	2	
4	1.48	chloride	28.194	2350	12782	1	-3.90
5	1.77	nitrite	27.064	1371	8074	1	-3.28
6	2.73	bromide	220.478	112892	1334451	1	1.49
7	4.17	phosphate	262.596	2959	33068	1	-5.44
8	5.45	sulfate	258.703	7288	91201	1	-6.52
Totals			807.013	129334	1491443		

File: 95101301.D05 Sample: S95T001856 .5-10



WQC-CD-WM-DP-137, REV. 1

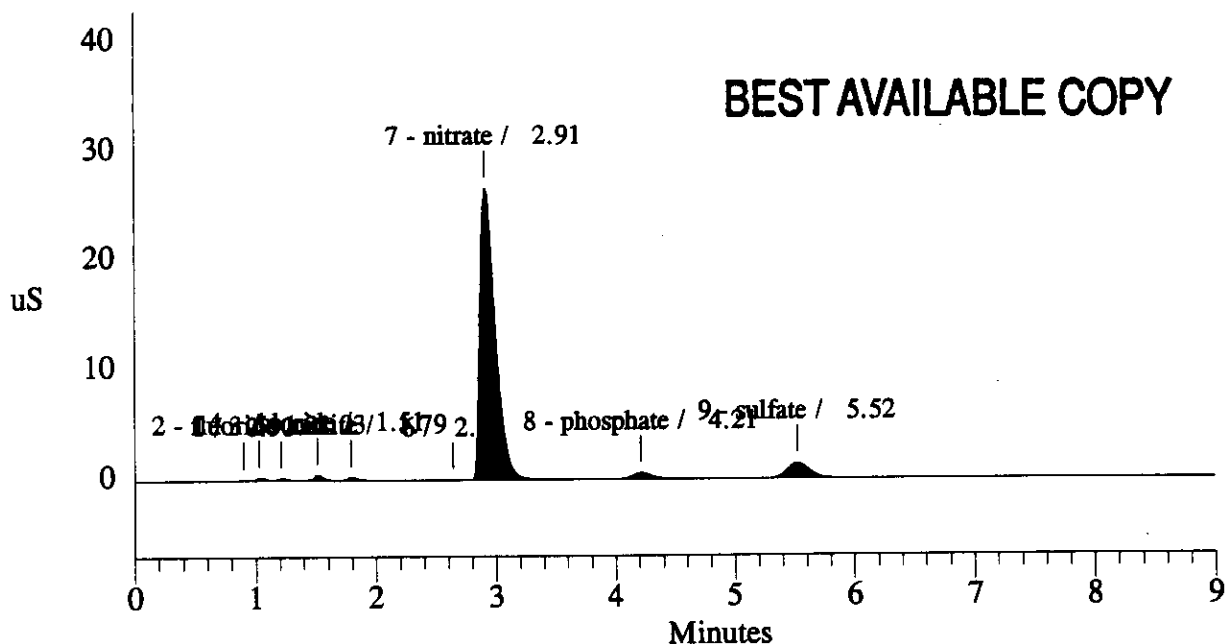
Sample Name: S95T001856 .1-10 Date: 10/13/1995 09:09:49
 Data File : C:\DX\DATA\95101301.D04
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	72	287	2	
2	1.03	fluoride	9.767	248	1185	2	-2.83
3	1.21		0.000	200	891	1	
4	1.51	chloride	26.383	507	2599	1	-1.95
5	1.79	nitrite	30.099	283	1700	1	-2.19
7	2.91	nitrate	3800.096	26645	235719	1	-5.21
8	4.21	phosphate	251.151	557	6109	1	-4.54
9	5.52	sulfate	256.921	1419	18069	1	-5.32
Totals			4374.417	29931	266558		

File: 95101301.D04 Sample: S95T001856 .1-10



WHC-CD-WM-DP-131, REV. 1

344.30

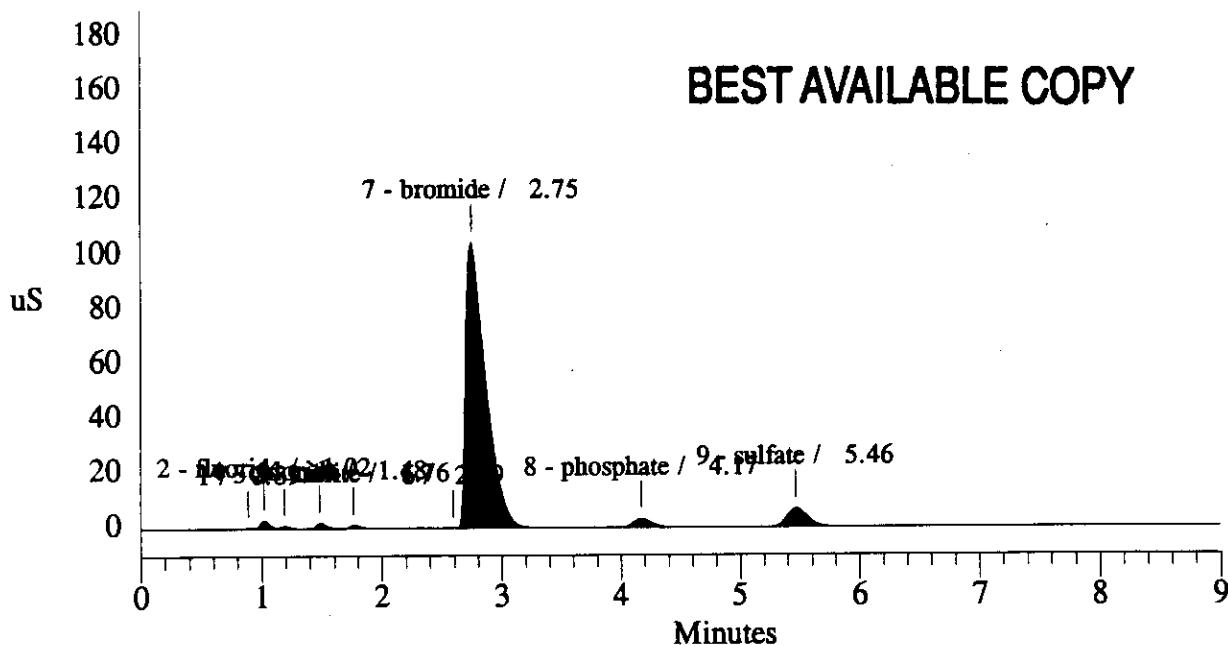
Sample Name: S95T001856 DUP .5-10 Date: 10/13/1995 09:45:01
 Data File : C:\DX\DATA\95101301.D07
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	157	554	2	
2	1.02	fluoride	24.097	2991	14892	2	-3.77
3	1.19		0.000	1015	5095	2	
4	1.48	chloride	26.589	2171	12047	1	-3.90
5	1.76	nitrite	25.242	1237	7515	1	-3.83
6	2.59		0.000	92	326	1	
7	2.75	bromide <i>really NO3 amt</i>	762.216	104712	1200475	1	2.23
8	4.17	phosphate	289.661	3304	36707	1	-5.44
9	5.46	sulfate	248.953	6927	87614	1	-6.35
Totals			1376.757	122606	1365224		

File: 95101301.D07 Sample: S95T001856 DUP .5-10



WHC-CD-WM-DP-132, REV. 1

344.31

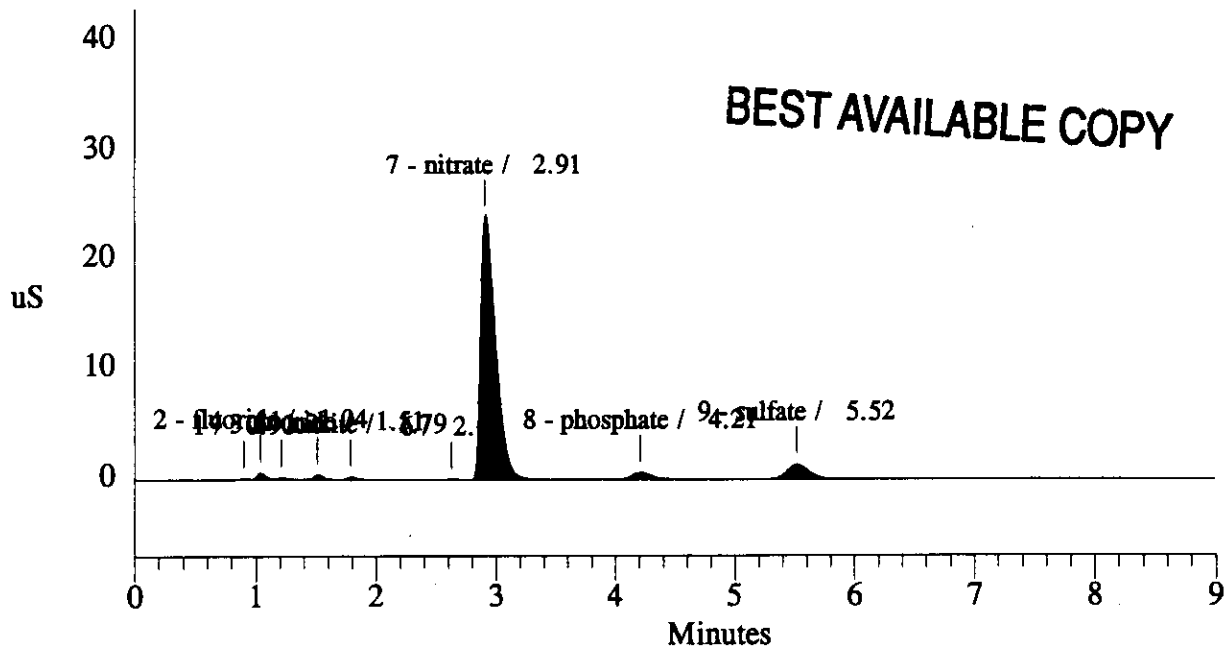
Sample Name: S95T001856 DUP .1-10 Date: 10/13/1995 09:33:17
 Data File : C:\DX\DATA\95101301.D06
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	59	210	2	
2	1.04	fluoride	23.253	594	2875	2	-1.89
3	1.21		0.000	184	842	2	
4	1.51	chloride	24.156	455	2396	1	-1.95
5	1.79	nitrite	27.262	254	1519	1	-2.19
7	2.91	nitrate	3409.861	23968	208024	1	-5.21
8	4.21	phosphate	285.597	617	6992	1	-4.54
9	5.52	sulfate	240.070	1331	16862	1	-5.32
Totals			4010.198	27461	239721		

File: 95101301.D06 Sample: S95T001856 DUP .1-10



WHC-DD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001857 .5-10          Date: 10/13/1995 10:31:58
Data File  : C:\DX\DATA\95101301.D11
Method     : C:\DX\METHOD\AUTOMEL.MET
\CI Address: 1 System: 1 Inject#: 11      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

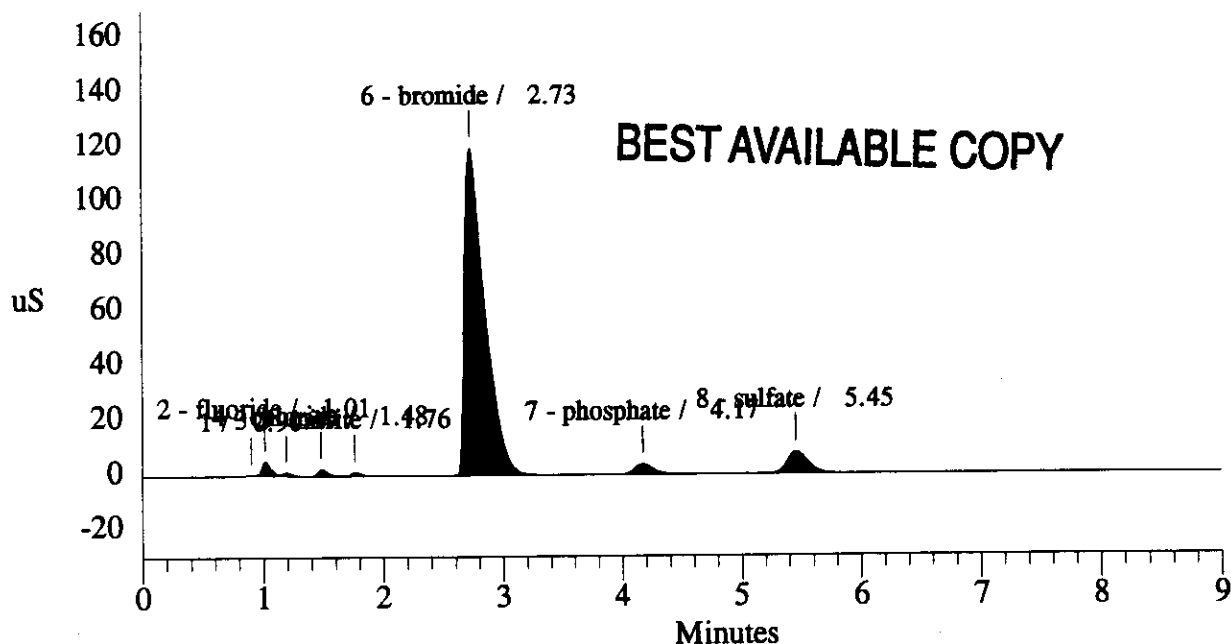
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   2700  5Hz   0.00  9.00         200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	179	530	2	
2	1.01	fluoride	41.062	4990	26137	2	-4.72
3	1.19		0.000	1210	6046	2	
4	1.48	chloride	29.749	2487	13496	1	-3.90
5	1.76	nitrite	28.558	1422	8534	1	-3.83
6	2.73	bromide	-101.314	119692	1402190	1	1.49
7	4.17	phosphate	330.486	3853	42280	1	-5.44
8	5.45	sulfate	282.388	8008	99966	1	-6.52
Totals			610.930	141841	1599177		

File: 95101301.D11 Sample: S95T001857 .5-10



WMO-CD-MM-DP-137, REV.1

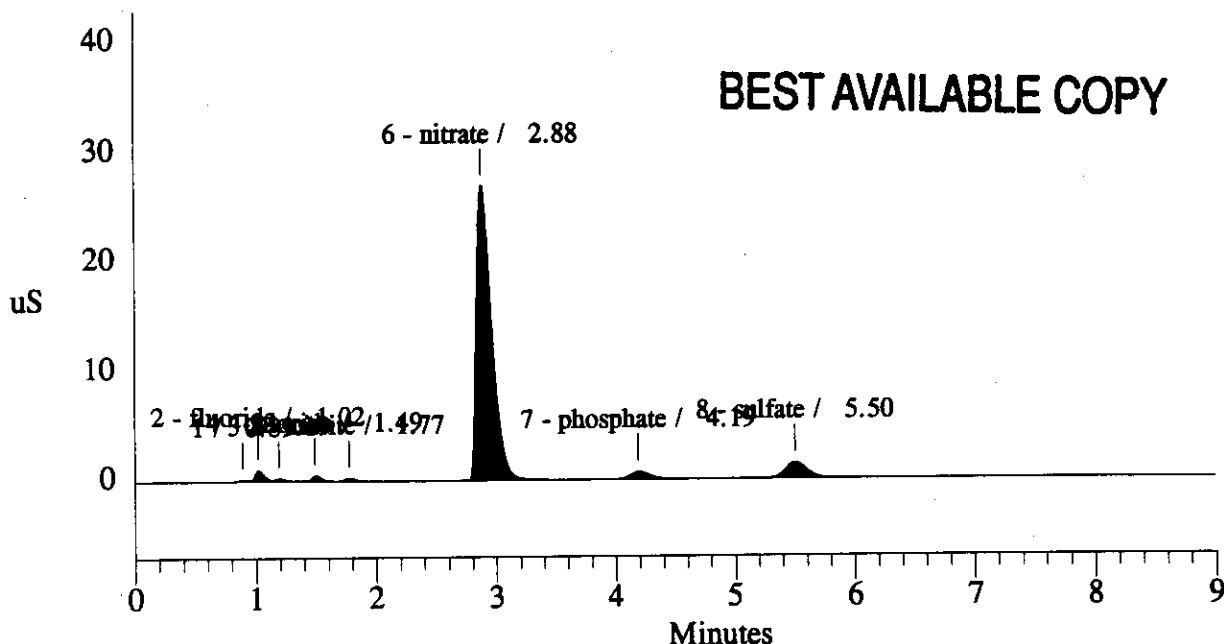
Sample Name: S95T001857 .1-10 Date: 10/13/1995 10:20:13
 Data File : C:\DX\DATA\95101301.D10
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	67	218	2	
2	1.02	fluoride	39.485	976	4929	2	-3.77
3	1.19		0.000	213	988	2	
4	1.49	chloride	26.565	512	2615	1	-3.25
5	1.77	nitrite	30.107	291	1700	1	-3.28
6	2.88	nitrate	3863.430	26885	240316	1	-6.19
7	4.19	phosphate	314.235	691	7727	1	-4.99
8	5.50	sulfate	268.027	1485	18866	1	-5.66
Totals			4541.849	31120	277360		

File: 95101301.D10 Sample: S95T001857 .1-10



WHO-CC-WM-DP-137, RE/L

344.34

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=====
Sample Name: S95T001857 DUP .5-10          Date: 10/13/1995 10:55:26
Data File  : C:\DX\DATA\95101301.D13
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 13         Detector: CDM-1
Analyst    : EM. Loh                      Column: AG4A/AS4A anion column
=====

```

```

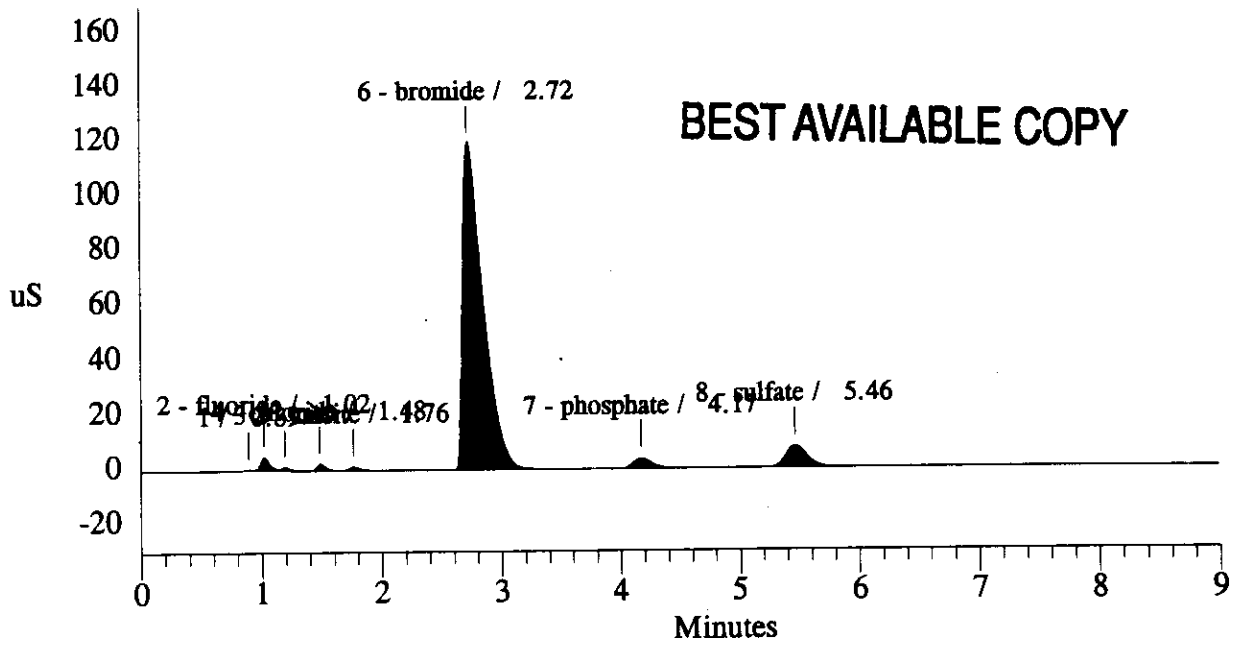
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	156	513	2	
2	1.02	fluoride	38.349	4826	24292	2	-3.77
3	1.19		0.000	1203	5977	2	
4	1.48	chloride	30.160	2530	13685	1	-3.90
5	1.76	nitrite	28.853	1443	8624	1	-3.83
6	2.72	bromide	-178.030	119088	1417407	1	1.12
7	4.17	phosphate	330.533	3789	42286	1	-5.44
8	5.46	sulfate	287.467	8052	101855	1	-6.35
Totals			537.332	141086	1614640		

File: 95101301.D13 Sample: S95T001857 DUP .5-10



WHIC-CD-WM-DP-137, REV. 1

```

=====
Sample Name: S95T001857 DUP .1-10          Date: 10/13/1995 10:43:43
Data File  : C:\DX\DATA\95101301.D12
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1   System: 1   Inject#: 12      Detector: CDM-1
Analyst    :                Column: AG4A/AS4A anion column
=====

```

```

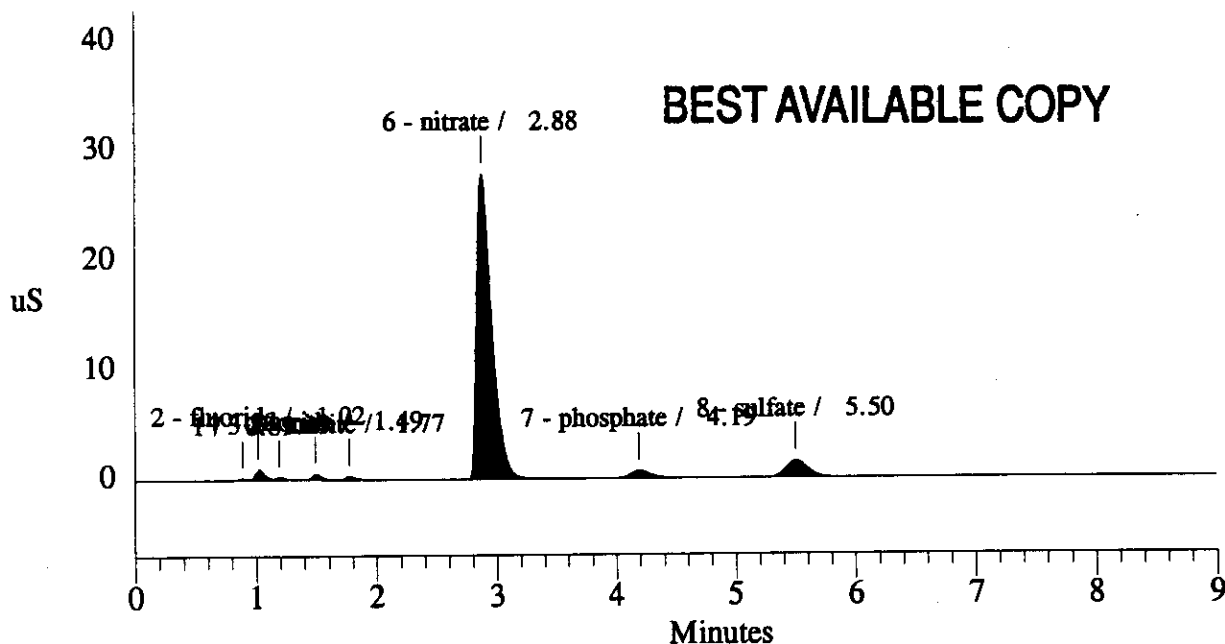
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700  5Hz   0.00  9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	78	279	2	
2	1.02	fluoride	37.486	927	4675	2	-3.77
3	1.19		0.000	218	1000	2	
4	1.49	chloride	27.277	524	2680	1	-3.25
5	1.77	nitrite	30.367	298	1717	1	-3.28
6	2.88	nitrate	3906.268	27847	243443	1	-6.19
7	4.19	phosphate	313.909	693	7719	1	-4.99
8	5.50	sulfate	274.593	1518	19337	1	-5.66
Totals			4589.899	32103	280849		

File: 95101301.D12 Sample: S95T001857 DUP .1-10



VHO-CD-WM-DP-137, REV. 1

344.3C

=====

Sample Name: S95T001856 SPK .5-10	Date: 10/13/1995 10:08:29
Data File : C:\DX\DATA\95101301.D09	
Method : C:\DX\METHOD\AUTOMEL.MET	
ACI Address: 1 System: 1 Inject#: 9	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

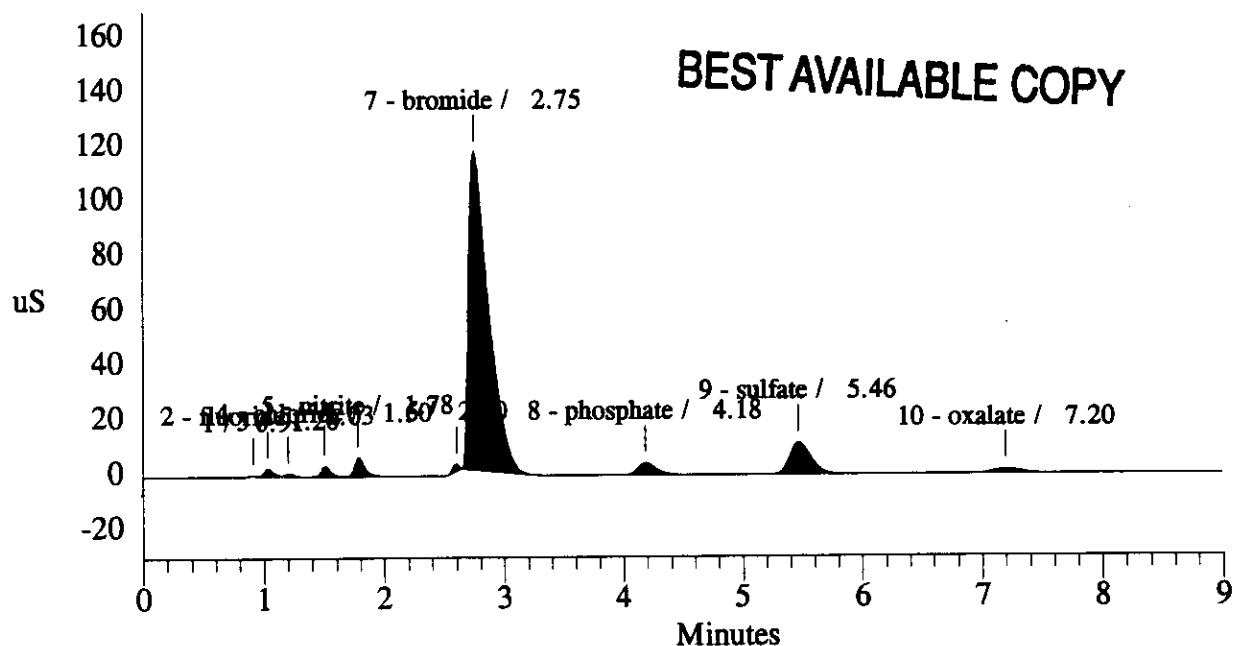
=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-----	-----	-----	-----	-----	-----	-----	-----	-----
External	1	21	2700	5Hz	0.00	9.00		200

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
-----	-----	-----	-----	-----	-----	-----	-----
1	0.91		0.000	237	818	2	
2	1.03	fluoride	22.800	2727	14059	2	-2.83
3	1.20		0.000	1064	5441	2	
4	1.50	chloride	44.420	3790	20342	1	-2.60
5	1.78	nitrite	131.474	6786	40646	1	-2.73
6	2.60		0.000	2541	9651	1	
7	2.75	bromide	185.913	116094	1342064	1	2.23
8	4.18	phosphate	377.243	4445	48791	1	-5.22
9	5.46	sulfate	403.983	11633	146168	1	-6.35
10	7.20	oxalate	113.050	1627	26594	1	-5.76
-----			-----				
Totals			1278.884	150943	1654576		

File: 95101301.D09 Sample: S95T001856 SPK .5-10



WHC-3D-WM-DP-137, REV. 1

344.37

```

=====
Sample Name: S95T001856 SPK .1-10          Date: 10/13/1995 09:56:46
Data File  : C:\DX\DATA\95101301.D08
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 8          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

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```

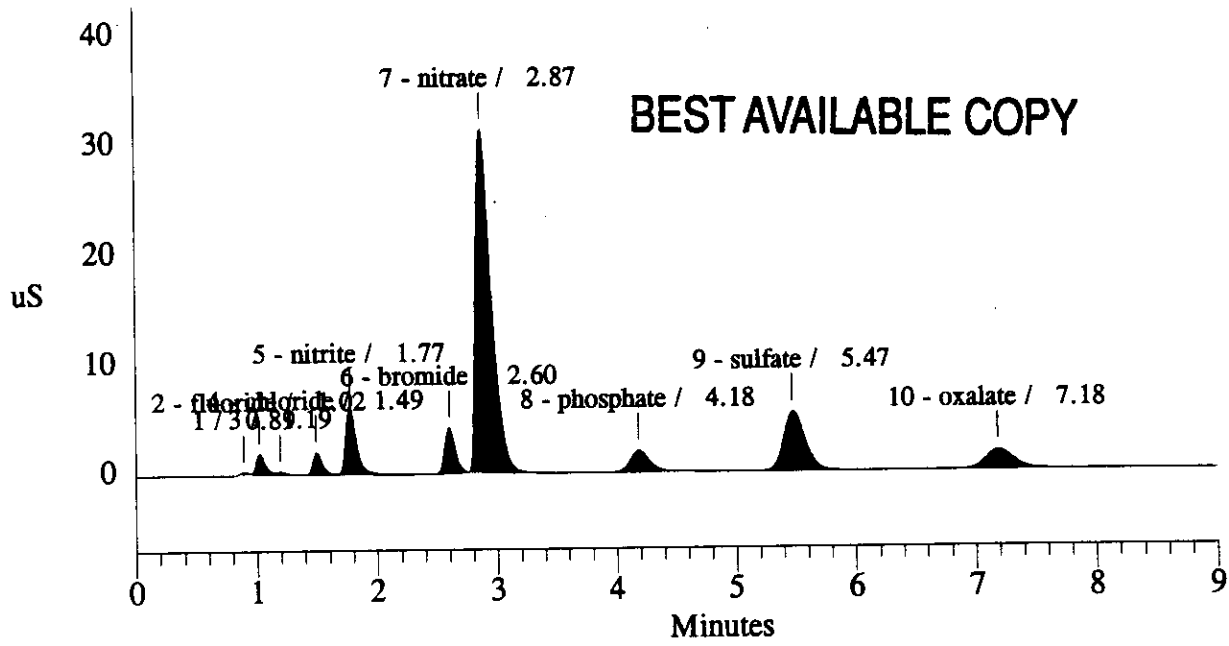
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    2700   5Hz   0.00   9.00          200
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	99	371	2	
2	1.02	fluoride	71.906	1795	9095	3	-3.77
3	1.19		0.000	210	999	4	
4	1.49	chloride	111.298	1989	10478	1	-3.25
5	1.77	nitrite	576.561	6249	36980	1	-3.28
6	2.60	bromide	576.396	4131	24739	1	-3.35
7	2.87	nitrate	4381.930	31213	279149	1	-6.51
8	4.18	phosphate	847.389	1957	21723	1	-5.22
9	5.47	sulfate	934.932	5393	67759	1	-6.17
10	7.18	oxalate	585.431	1760	28715	1	-6.02
Totals			8085.842	54797	480006		

File: 95101301.D08 Sample: S95T001856 SPK .1-10



WHC-CD-WM-DP-132, REV. 1

LABCORE Data Entry Template for Worklist#

2852

Analyst: EC. Instrument: IC01 IC03 Book # 109N9-A

Method: LA-533-105 Rev/Mod D-1

WHIC-CD-WM-DP-137, REV. 1

Worklist Comment: B-104 IC water digests, need BR. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			②IC-QC F-QC	QC		<u>4.063</u>	N/A	ug/mL
		1 CCB			②IC-QC CL-QC	QC		<u>4.084</u>	N/A	ug/mL
		1 CCB			②IC-QC NO2-QC	QC		<u>4.534</u>	N/A	ug/mL
		1 CCB			②IC-QC BR-QC	QC		<u>4.150</u>	N/A	ug/mL
		1 CCB			②IC-QC NO3-QC	QC		<u>4.699</u>	N/A	ug/mL
		1 CCB			②IC-QC PO4-QC	QC		<u>4.596</u>	N/A	ug/mL
		1 CCB			②IC-QC SO4-QC	QC		<u>4.678</u>	N/A	ug/mL
		1 CCB			②IC-QC OXALATQC	QC		<u>4.525</u>	N/A	ug/mL
		2 CCV			②IC-QC F-QC	QC		<u>61.5</u>	N/A	ug/mL
		2 CCV			②IC-QC CL-QC	QC		<u>84.9</u>	N/A	ug/mL
		2 CCV			②IC-QC NO2-QC	QC		<u>528.2</u>	N/A	ug/mL
		2 CCV			②IC-QC BR-QC	QC		<u>574.1</u>	N/A	ug/mL
		2 CCV			②IC-QC NO3-QC	QC		<u>604.1</u>	N/A	ug/mL
		2 CCV			②IC-QC PO4-QC	QC		<u>585.3</u>	N/A	ug/mL
		2 CCV			②IC-QC SO4-QC	QC		<u>638.1</u>	N/A	ug/mL
		2 CCV			②IC-QC OXALATQC	QC		<u>556.1</u>	N/A	ug/mL
		3 BLNK-PREP			②IC-01 F-02	SOLID		<u>4.063</u>	N/A	ug/g
		3 BLNK-PREP			②IC-01 CL-02	SOLID		<u>4.084</u>	N/A	ug/g

Data Entry Comments:

Sam Dup
S95T001858 10.1690 10.2880

LMCS 109N9-A 1 mL - 10 mL S95T001859 10.5260 10.4810

SPIKE 109N9-A 1 mL

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.39

LABCORE Data Entry Template for Worklist#

2852

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				aIC-01 NO2-02	SOLID		4.534	N/A	ug/g
		3	BLNK-PREP				aIC-01 BR-02	SOLID		4.150	N/A	ug/g
		3	BLNK-PREP				aIC-01 NO3-02	SOLID		4.699	N/A	ug/g
		3	BLNK-PREP				aIC-01 PO4-02	SOLID		4.596	N/A	ug/g
		3	BLNK-PREP				aIC-01 SO4-02	SOLID		4.678	N/A	ug/g
		3	BLNK-PREP				aIC-01 OXALATE2	SOLID		4.525	N/A	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 F-02	SOLID	N/A	2.88e3	4.30e2	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 CL-02	SOLID	N/A	2.31e3	1.73e2	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 NO2-02	SOLID	N/A	2.18e3	1.10e3	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 BR-02	SOLID	N/A	3.10e2	3.10e2	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 NO3-02	SOLID	N/A	2.77e5	6.94e3	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 PO4-02	SOLID	N/A	2.31e4	1.23e3	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 SO4-02	SOLID	N/A	1.95e4	1.40e3	ug/g
95000088	B-104	4	SAMPLE	S95T001858	0	W	aIC-01 OXALATE2	SOLID	N/A	4.10e3	1.08e3	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 F-02	SOLID	2.88e3	3.15e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 CL-02	SOLID	2.31e3	2.24e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 NO2-02	SOLID	2.11e3	2.09e3	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 BR-02	SOLID	4.310e2	4.310e2	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 NO3-02	SOLID	2.77e5	2.1e2e5	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 PO4-02	SOLID	2.31e4	2.22e4	N/A	ug/g
95000088	B-104	5	DUP	S95T001858	0	W	aIC-01 SO4-02	SOLID	1.95e4	1.93e4	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.40

LABCORE Data Entry Template for Worklist#

2852

XP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001858	0 W	QIC-01 OXALATE2	SOLID	1.08e3	1.08e3	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 F-02	SOLID	100	92.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 CL-02	SOLID		87.8	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 NO2-02	SOLID		92.2	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 BR-02	SOLID		97.0	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 NO3-02	SOLID		99.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 PO4-02	SOLID		99.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 SO4-02	SOLID		101.3	N/A	ug/g
95000088	B-104	6 SPK	S95T001858	0 W	QIC-01 OXALATE2	SOLID		114.5	N/A	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 F-02	SOLID	N/A	3.59e3	1.26e2	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 CL-02	SOLID	N/A	2.21e3	1.48e2	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 NO2-02	SOLID	N/A	2.08e3	1.07e3	ug/g
000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 BR-02	SOLID	N/A	12.99e2	2.99e2	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 NO3-02	SOLID	N/A	2.57e5	6.71e3	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 PO4-02	SOLID	N/A	2.42e4	1.19e3	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 SO4-02	SOLID	N/A	1.93e4	1.35e3	ug/g
95000088	B-104	7 SAMPLE	S95T001859	0 W	QIC-01 OXALATE2	SOLID	N/A	1.05e3	1.05e3	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	QIC-01 F-02	SOLID	3.59e3	3.54e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	QIC-01 CL-02	SOLID	2.21e3	2.25e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	QIC-01 NO2-02	SOLID	2.08e3	2.11e3	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	QIC-01 BR-02	SOLID	12.99e2	12.99e2	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	QIC-01 NO3-02	SOLID	2.57e5	2.44e5	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2852

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	8 DUP	S95T001859	0 W	@IC-01 PO4-02	SOLID	2.42e4	2.34e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	@IC-01 SO4-02	SOLID	1.93e4	1.97e4	N/A	ug/g
95000088	B-104	8 DUP	S95T001859	0 W	@IC-01 OXALATE2	SOLID	1.05e3	1.05e3	N/A	ug/g

Final page for worklist #

2852

E.W. Cole 10-13-95
Analyst Signature Date

St. Peter 10/17/95
Analyst Signature Date

Ready to enter 10/17/95 Jan Tye

Verified 10/18/95 Jan Tye

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

344, 42

**WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX**

SAMPLE #: S95T001858 & S95T001859 TEST CODE: @lc-01 INSTRUMENT: IC03 WORK LIST #: 2852 BATCH ID:	ANALYST: Ed Colvin ANALYSIS DATE: 10/13/95 SAMPLE POINT: B-104 SAMPLE PREP: water digest
---	---

Result Units	µg/g	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9A		104.2%	107.5%	99.1%	98.4%	107.2%	101.1%	99.8%	105.7%
S95T001858		2.88E+03	2.31E+03	2.11E+03	2.77E+05	2.31E+04	1.95E+04	<309.76	<1084.18
S95T001858dup		3.15E+03	2.24E+03	2.09E+03	2.62E+05	2.22E+04	1.93E+04	<306.18	<1071.64
Duplicate 1 RPD		8.8%	3.4%	0.8%	5.6%	4.3%	1.0%	N/A	N/A
S95T001859		3.59E+03	2.21E+03	2.08E+03	2.57E+05	2.42E+04	1.93E+04	<299.26	<1047.41
S95T001859dup		3.54E+03	2.25E+03	2.11E+03	2.64E+05	2.34E+04	1.97E+04	<300.54	<1051.90
Duplicate 2 RPD		1.4%	1.8%	1.1%	2.3%	3.6%	1.7%	N/A	N/A
S95T001858spk		92.3%	87.8%	92.2%	99.3%	99.3%	101.3%	97.0%	114.5%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>James M. Faye</i>	Date: 10/17/95
Chemist Approval: <i>James M. Faye</i>	Date: 10/17/95

344.43

LAB LEADER INFO

Method: LA-433-106 D-1

Matrix: solid

Test Code: @c-01

Work List #: 2652

Batch #:

Result Units

(µg/g or µg/mL): µg/g

Spike Book Number: 10895A

Spike Sample #: 1

Prepared By: Jann Frys

Prepared Date: 10/17/95

Chemist: Jann Frys

Analyst: Ed Colvin

Analysis Date: 10/13/95

Time Complete: 11:30 AM

Instrument Code: IC03

Return: 0

Sample Prep: water digest

Sample Point: B-104

Sample Type

STANDARD

10895A

SAMPLE 1

S66T0016859

DUPPLICATE 1

S66T0016859

SAMPLE 2

S66T0016859

DUPPLICATE 2

S66T0016859

SAMPLE 3

S66T0016859

DUPPLICATE 3

SAMPLE 4

S66T0016859

DUPPLICATE 4

S66T0016859

SPIKE

S66T0016859

SPIKE DUPLICATE

PRINT

TECH INFO									
Blank Data (µg/mL)	<.063	<.064	<.534	<.699	<.896	<.878	<.160	<.825	Oxalate
Standard Data (µg/mL)	61.6	84.9	628.2	604.1	668.3	638.1	674.1	666.1	
Sample 1 Data (µg/mL)									
Sample 1 Data (µg/mL)	2.93E+01	2.96E+01	2.16E+01	2.81E+03	2.36E+02	1.99E+02	<.160	<.825	
Sample 1 Division Factor	21	21	21	101	21	21	21	21	
Sample 1 Prep DF	10.169	10.169	10.169	10.169	10.169	10.169	10.169	10.169	
Duplicate 1 Data (µg/mL)									
Duplicate 1 Data (µg/mL)	3.24E+01	2.30E+01	2.16E+01	2.69E+03	2.28E+02	1.99E+02	<.160	<.825	
Duplicate 1 Division Factor	21	21	21	101	21	21	21	21	
Duplicate 1 Prep DF	10.169	10.169	10.169	10.169	10.169	10.169	10.169	10.169	
Sample 2 Data (µg/mL)									
Sample 2 Data (µg/mL)	3.78E+01	2.33E+01	2.19E+01	2.71E+03	2.66E+02	2.04E+02	<.160	<.825	
Sample 2 Division Factor	21	21	21	101	21	21	21	21	
Sample 2 Prep DF	10.626	10.626	10.626	10.626	10.626	10.626	10.626	10.626	
Duplicate 2 Data (µg/mL)									
Duplicate 2 Data (µg/mL)	3.71E+01	2.36E+01	2.21E+01	2.76E+03	2.46E+02	2.06E+02	<.160	<.825	
Duplicate 2 Division Factor	21	21	21	101	21	21	21	21	
Duplicate 2 Prep DF	10.481	10.481	10.481	10.481	10.481	10.481	10.481	10.481	
Sample 3 Data (µg/mL)									
Sample 3 Data (µg/mL)									
Sample 3 Division Factor									
Sample 3 Prep DF									
Duplicate 3 Data (µg/mL)									
Duplicate 3 Data (µg/mL)									
Duplicate 3 Division Factor									
Duplicate 3 Prep DF									
Sample 4 Data (µg/mL)									
Sample 4 Data (µg/mL)									
Sample 4 Division Factor									
Sample 4 Prep DF									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Data (µg/mL)									
Duplicate 4 Division Factor									
Duplicate 4 Prep DF									
Spike + Sample 1 (µg/mL)									
Spike + Sample 1 (µg/mL)	4.02E+01	3.74E+01	1.20E+02	3.42E+03	3.44E+02	3.26E+02	1.12E+02	1.21E+02	
Spike + Dup 1 (µg/mL)									
Spike Volume (mL)									
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	
Total Volume (mL)	10.60	10.60	10.60	10.10	10.60	10.60	10.60	10.60	
Std. Conc. (µg/mL)	68	79	633	614	646	631	676	626	
Detection Limit									
Detection Limit	0.063	0.064	0.634	0.699	0.678	0.160	0.625	0.625	
Matrix Detection Limit 1									
Matrix Detection Limit 1	1.30E+02	1.73E+02	1.10E+03	6.94E+03	1.23E+03	1.40E+03	3.10E+02	1.08E+03	
Matrix Detection Limit 2									
Matrix Detection Limit 2	1.28E+02	1.68E+02	1.07E+03	6.71E+03	1.19E+03	1.36E+03	2.99E+02	1.05E+03	
Matrix Detection Limit 3									
Matrix Detection Limit 3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Matrix Detection Limit 4									
Matrix Detection Limit 4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

Spike Recovery = ((Spike + Sample) - (Sample)) / ((Sample) * 100%)

Note: For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.

Duplicate Relative % Difference = ((Sample - Duplicate) / ((Sample) + Duplicate)) * 100%

Less than Values are Calculated from the Detection Limit/Dilution Factor

Date Entry By: *Jann Frys*

Approved By: *Jann Frys*

Date: 10/17/95

Form DIONEWS1 Rev. 1.3

344.44

Data Reprocessed On 10/13/1995 10:53:52

```

=====
Sample Name: 109N9-A STD .1-10          Date: 10/13/1995 09:01:33
Data File  : C:\DX\DATA\95101301.D03
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 3      Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

Ed Colvin 10-13-95

```

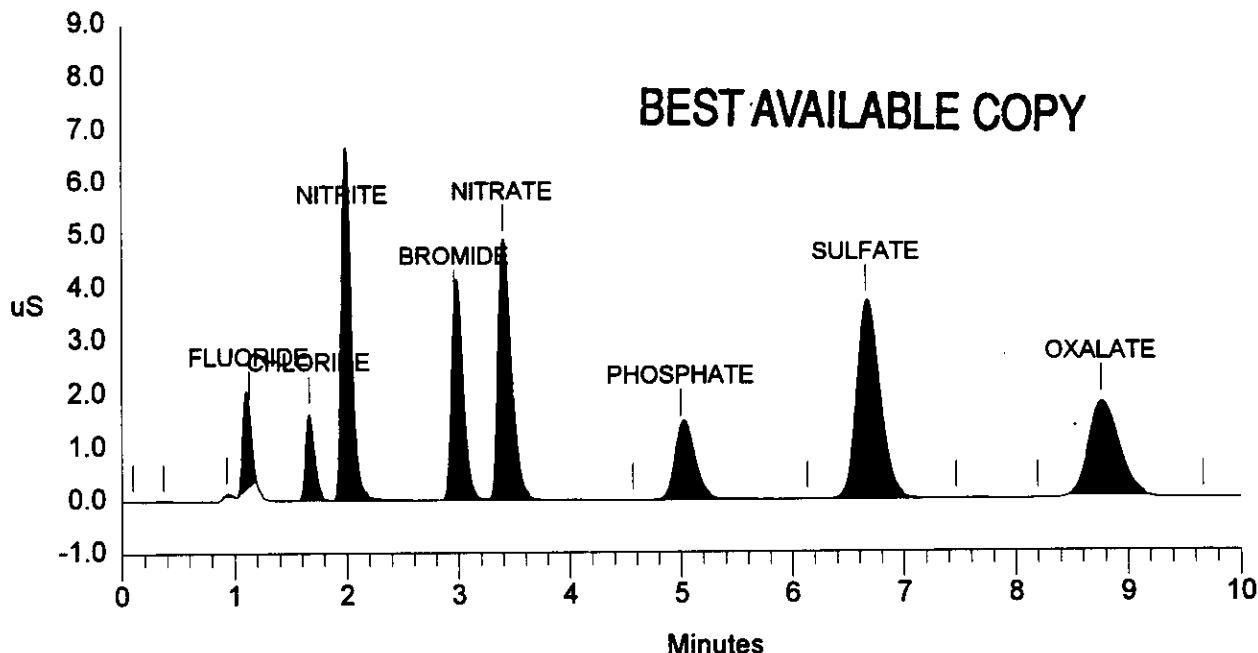
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000  5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	61.494	1446600	8962680	1	3.03
5	1.67	CHLORIDE	84.909	1633145	9066660	1	2.04
6	1.97	NITRITE	528.289	4811490	41624944	1	0.00
7	2.97	BROMIDE	574.070	3647692	29488994	2	2.30
8	3.40	NITRATE	604.112	4887532	40780235	2	4.08
10	5.00	PHOSPHATE	585.341	1398610	19343974	3	1.35
12	6.67	SULFATE	638.148	3725487	55054568	3	2.56
15	8.77	OXALATE	556.186	1774138	32982240	1	2.73
Totals			3632.550	23324694	237304294		

File: 95101301.D03 Sample: 109N9-A STD .1-10



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 344.45 TO 344.52
 WMO-SD-WM-DP-137, REV. 1

344.45

```

=====
Sample Name: PREP BLANK                      Date: 10/13/1995 08:48:48
Data File  : C:\DX\DATA\95101301.D02
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2          Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

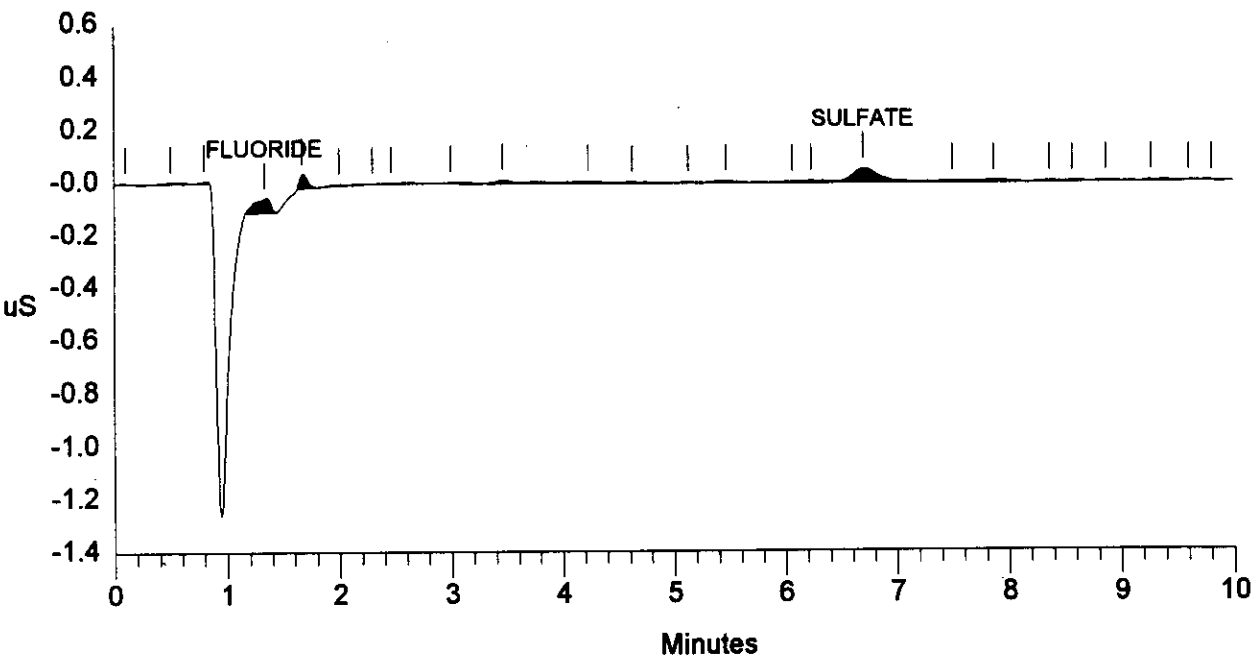
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00 500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.33	FLUORIDE	0.025	52423	557550	1	21.21
17	6.70	SULFATE	0.165	53352	936856	2	3.08
Totals			0.190	105774	1494406		

File: 95101301.D02 Sample: PREP BLANK



ENG-CD-WM-DP-137, REV. 1


```

=====
Sample Name: INSTR BLANK                      Date: 10/13/1995 08:36:05
Data File  : C:\DX\DATA\95101301.D01
Method     : C:\DX\METHOD\ANIONS.MET
PCI Address: 1 System: 2 Inject#: 1           Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    3000   5Hz   0.00 10.00   500000
-----

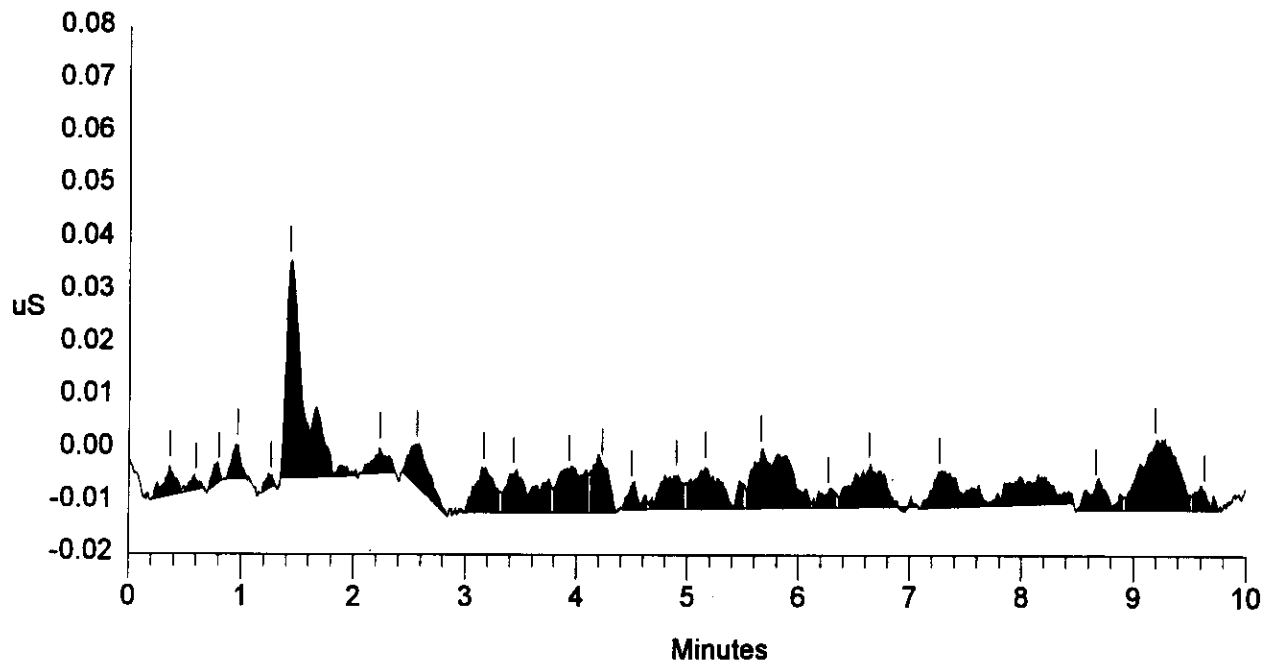
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta

Totals			0.000	0	0		

File: 95101301.D01 Sample: INSTR BLANK



WQC-03-WM-OP-137, REV. 1

344.47

Sample Name: S95T001858 .5-10

Date: 10/13/1995 09:26:59

Data File : C:\DX\DATA\95101301.D05

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 5

Detector: CDM-2

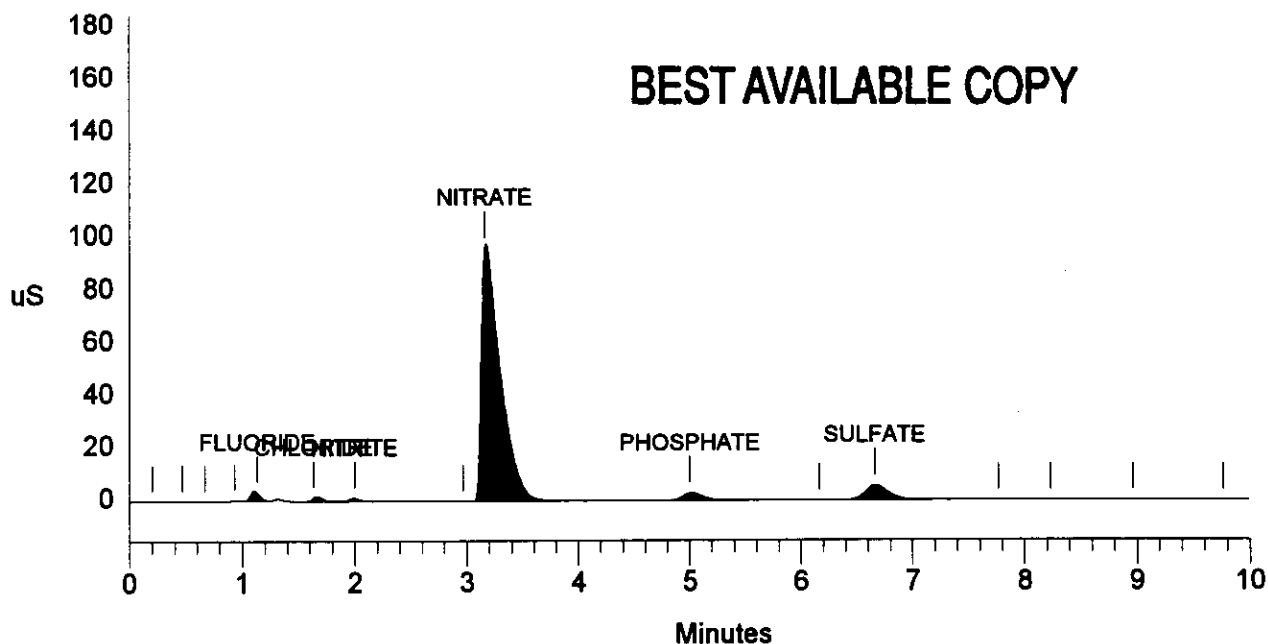
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	0.93		0.000	178779	681920	1	
5	1.13	FLUORIDE	29.331	2987714	20900440	1	3.03
6	1.63	CHLORIDE	23.521	1454646	12139918	1	0.00
7	2.00	NITRITE	21.485	1175868	7424558	1	1.69
9	3.17	NITRATE	2116.103	96069787	1147513656	2	-3.06
10	5.00	PHOSPHATE	235.493	2832381	38029226	3	1.35
12	6.67	SULFATE	198.416	5687831	83279460	3	2.56
Totals			2624.349	110387006	1309969177		

File: 95101301.D05 Sample: S95T001858 .5-10



WHO-OD-WM-OP-137, REV. 1

344.48

```

=====
Sample Name: S95T001858 .1-10      Date: 10/13/1995 09:14:16
Data File  : C:\DX\DATA\95101301.D04
Method     : C:\DX\METHOD\ANIONS.MET
CI Address: 1 System: 2 Inject#: 4   Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

```

```

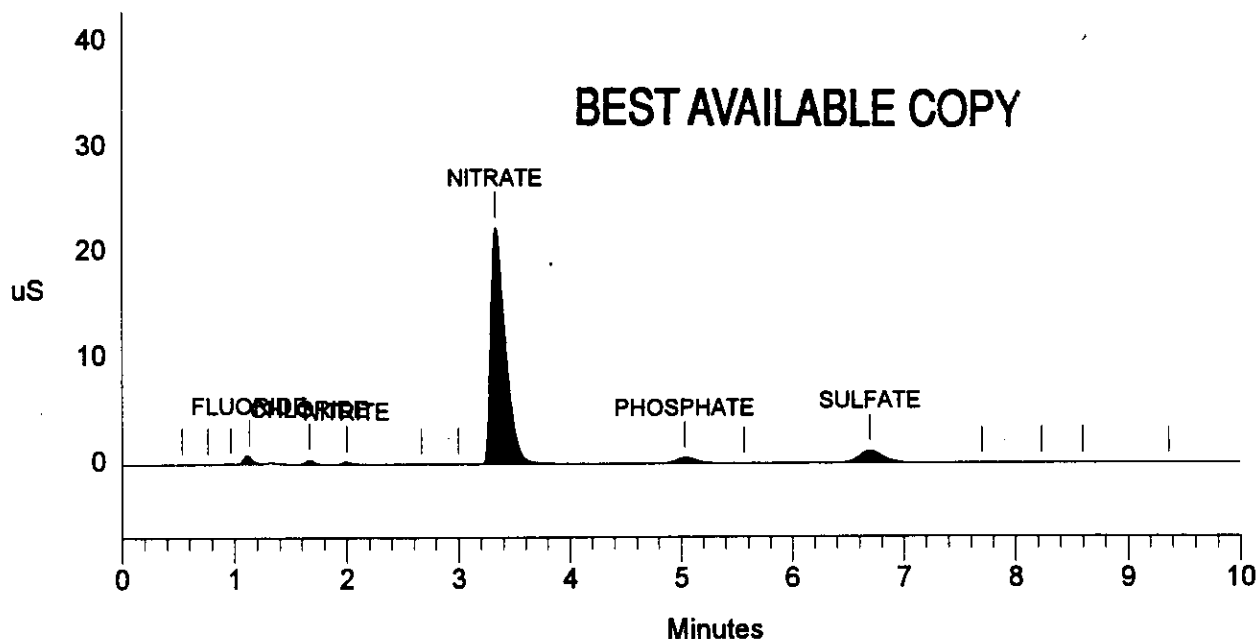
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    3000  5Hz   0.00 10.00   500000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	30.932	698825	4563806	1	3.03
5	1.67	CHLORIDE	20.778	423317	2200014	1	2.04
6	2.00	NITRITE	30.661	245941	1615972	1	1.69
9	3.33	NITRATE	2814.963	22412833	202908035	2	2.04
10	5.03	PHOSPHATE	222.284	553791	7272754	3	2.03
12	6.70	SULFATE	207.811	1165531	17396446	2	3.08
Totals			3327.429	25500238	235957026		

File: 95101301.D04 Sample: S95T001858 .1-10



W-2000M-DP-137, REV. 1

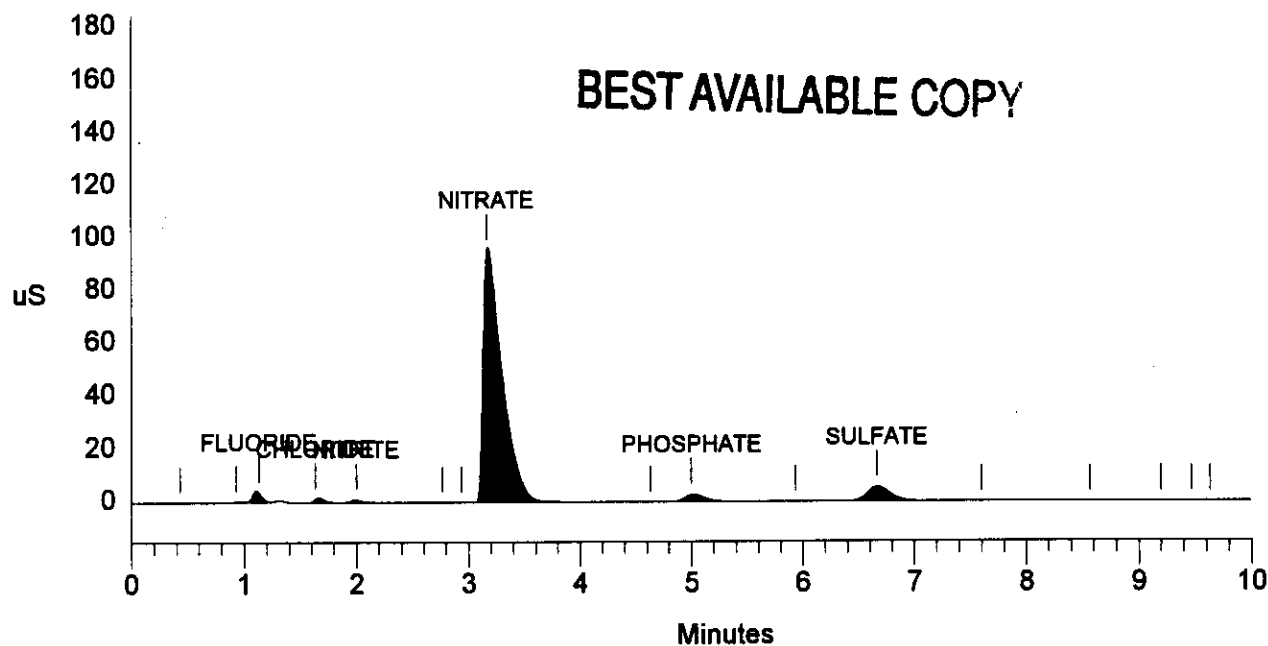
Sample Name: S95T001858 DUP .5-10 Date: 10/13/1995 09:53:09
 Data File : C:\DX\DATA\95101301.D07
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 7 Detector: CDM-2
 Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	174297	666840	1	
3	1.13	FLUORIDE	32.392	3471134	23193460	1	3.03
4	1.63	CHLORIDE	23.016	1427806	11873842	1	0.00
5	2.00	NITRITE	21.550	1161326	7449682	1	1.69
8	3.17	NITRATE	2103.824	95393910	1127252422	3	-3.06
10	5.00	PHOSPHATE	228.288	2848393	36827795	2	1.35
12	6.67	SULFATE	198.726	5663544	83413435	2	2.56
Totals			2607.795	110140410	1290677476		

File: 95101301.D07 Sample: S95T001858 DUP .5-10



WHO-CC-WAMP-637, REV. 1

344.50

Sample Name: S95T001858 DUP .1-10
 Data File : C:\DX\DATA\95101301.D06
 Method : C:\DX\METHOD\ANIONS.MET
 VCI Address: 1 System: 2 Inject#: 6
 Analyst : Ed Colvin Column:

Date: 10/13/1995 09:39:41

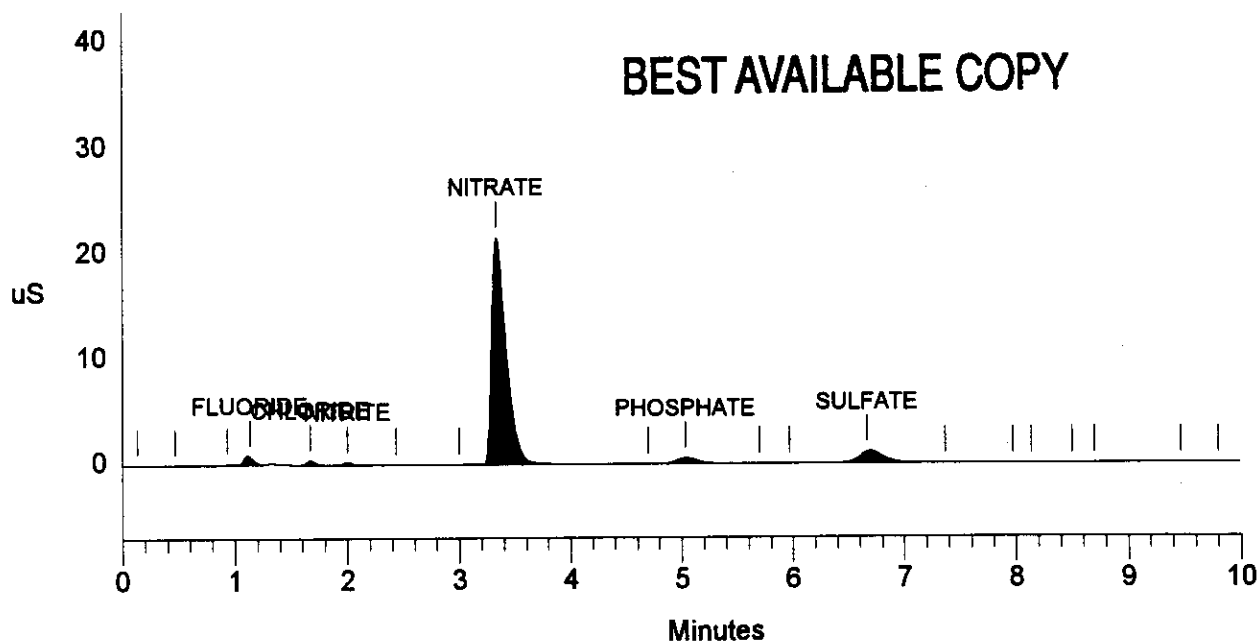
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	33.414	740670	4917554	1	3.03
5	1.67	CHLORIDE	20.103	402528	2128630	1	2.04
6	2.00	NITRITE	28.683	235536	1458044	3	1.69
9	3.33	NITRATE	2693.728	21593061	193459033	3	2.04
11	5.03	PHOSPHATE	222.855	550792	7291571	3	2.03
14	6.67	SULFATE	202.138	1084199	16905699	2	2.56
Totals			3200.923	24606785	226160530		

File: 95101301.D06 Sample: S95T001858 DUP .1-10



WHO-CD-M-01-137, REV. 1

344, 51

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Sample Name: S95T001859 .5-10      Date: 10/13/1995 10:44:09
Data File  : C:\DX\DATA\95101301.D11
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 11      Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

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```

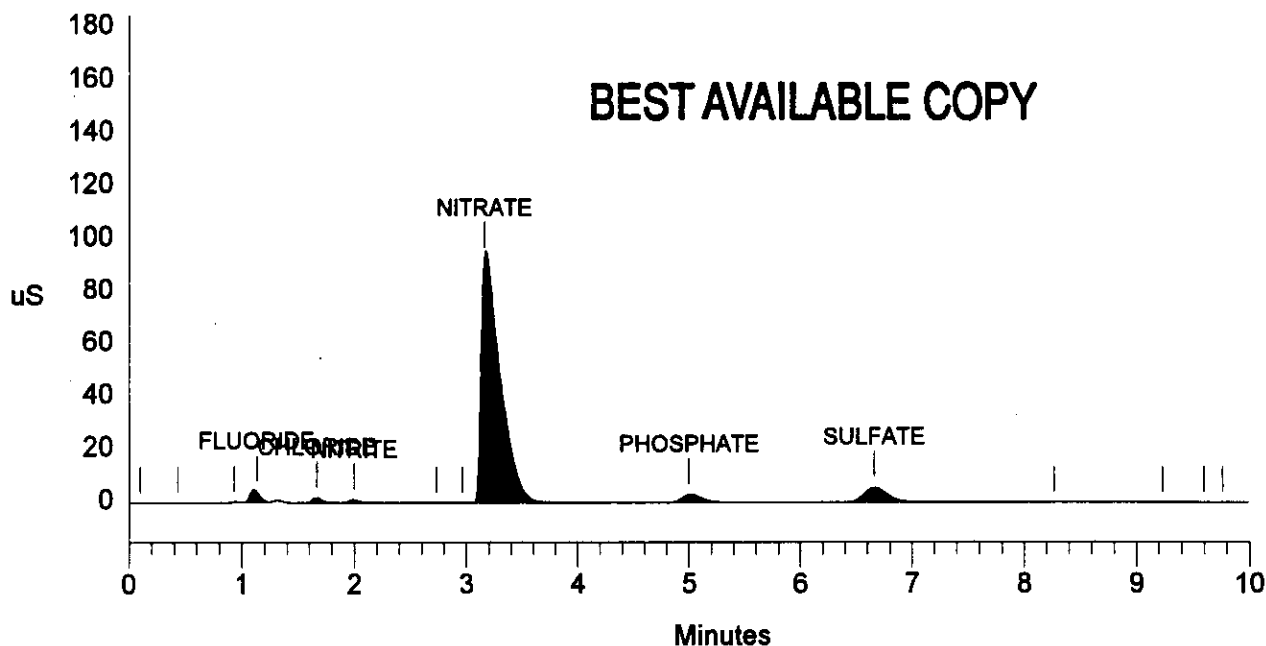
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  3000  5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	179552	684560	1	
4	1.13	FLUORIDE	37.789	3858046	27307780	1	3.03
5	1.67	CHLORIDE	23.287	2044038	12016458	1	2.04
6	2.00	NITRITE	21.938	1169750	7599124	1	1.69
9	3.17	NITRATE	2099.762	93012729	1120858990	2	-3.06
10	5.00	PHOSPHATE	255.244	3097172	41336087	2	1.35
11	6.67	SULFATE	203.500	5766665	85483174	2	2.56
Totals			2641.520	109127951	1295286173		

File: 95101301.D11 Sample: S95T001859 .5-10



WHC-SD-WM-DP-137, REV. 1

344.52

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=====
Sample Name: S95T001859 .1-10                      Date: 10/13/1995 10:31:24
Data File  : C:\DX\DATA\95101301.D10
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 10                Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

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```

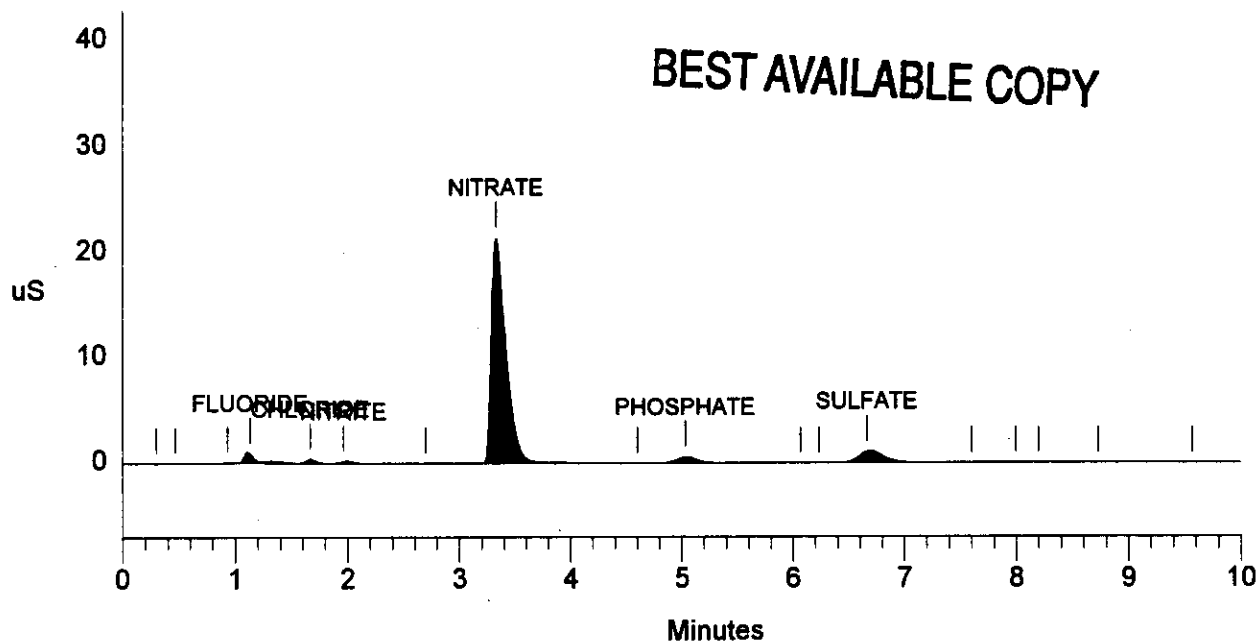
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000  5Hz   0.00 10.00   500000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
4	1.13	FLUORIDE	51.927	882173	7575256	1	3.03
5	1.67	CHLORIDE	20.711	406342	2192948	1	2.04
6	1.97	NITRITE	29.081	181310	1489838	1	0.00
8	3.33	NITRATE	2710.210	21418728	194739358	3	2.04
10	5.03	PHOSPHATE	239.289	590951	7832672	2	2.03
13	6.67	SULFATE	208.257	1105951	17435057	2	2.56
Totals			3259.476	24585456	231265129		

File: 95101301.D10 Sample: S95T001859 .1-10



WFO CD-WM-OP-137, REV. 1

344.53

Sample Name: S95T001859 DUP .5-10
 Data File : C:\DX\DATA\95101301.D13
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 13
 Analyst : Ed Colvin Column:

Date: 10/13/1995 11:09:35

Detector: CDM-2

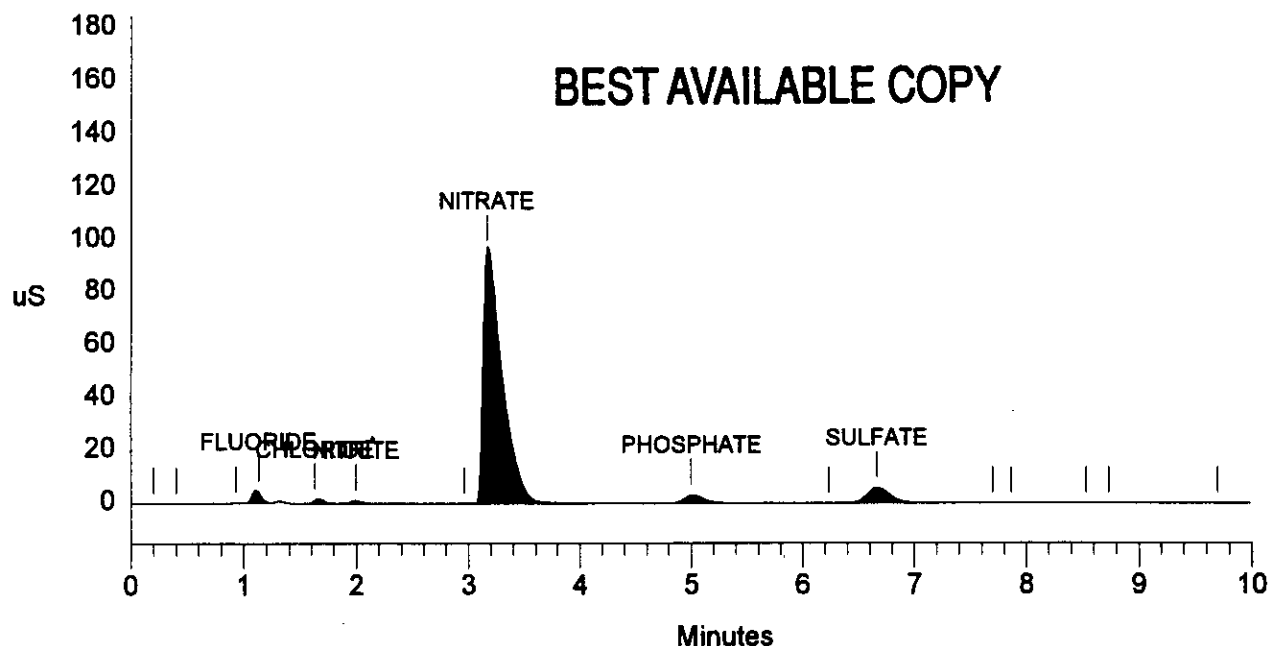
Ed Colvin

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
3	0.93		0.000	182517	696840	1	
4	1.13	FLUORIDE	37.090	4025785	26769800	1	3.03
5	1.63	CHLORIDE	23.602	1433505	12182230	1	0.00
6	2.00	NITRITE	22.073	1201232	7651004	1	1.69
8	3.17	NITRATE	2113.648	96028072	1143340666	2	-3.06
9	5.00	PHOSPHATE	245.216	3070983	39654788	2	1.35
11	6.67	SULFATE	206.280	5909772	86689248	1	2.56
Totals			2647.909	111851867	1316984577		

File: 95101301.D13 Sample: S95T001859 DUP .5-10



VHQC-SD-WM-DP-137, REV. 1

344.54


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Sample Name: S95T001859 DUP .1-10          Date: 10/13/1995 10:56:53
Data File  : C:\DX\DATA\95101301.D12
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 12        Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

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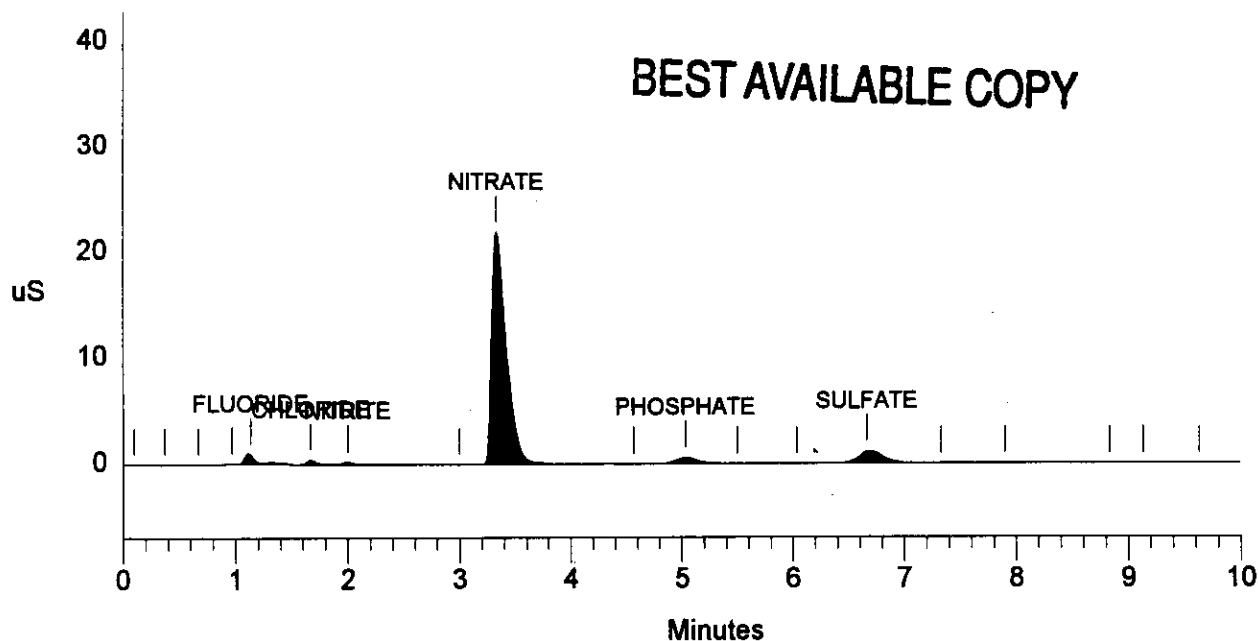
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000  5Hz   0.00 10.00   500000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
5	1.13	FLUORIDE	49.201	866076	7181736	1	3.03
6	1.67	CHLORIDE	21.793	415676	2307466	1	2.04
7	2.00	NITRITE	28.252	238777	1423602	1	1.69
9	3.33	NITRATE	2762.153	21994314	198783015	3	2.04
11	5.03	PHOSPHATE	228.313	586791	7471216	3	2.03
14	6.67	SULFATE	210.542	1147936	17632754	3	2.56
16	7.90		0.000	12775	555775	4	
Totals			3300.254	25262345	235355562		

File: 95101301.D12 Sample: S95T001859 DUP .1-10



WING-CD-MN-OP-137, REV. 1

344.55

Sample Name: S95T001858 SPK .5-10

Date: 10/13/1995 10:18:39

Data File : C:\DX\DATA\95101301.D09

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 9

Detector: CDM-2

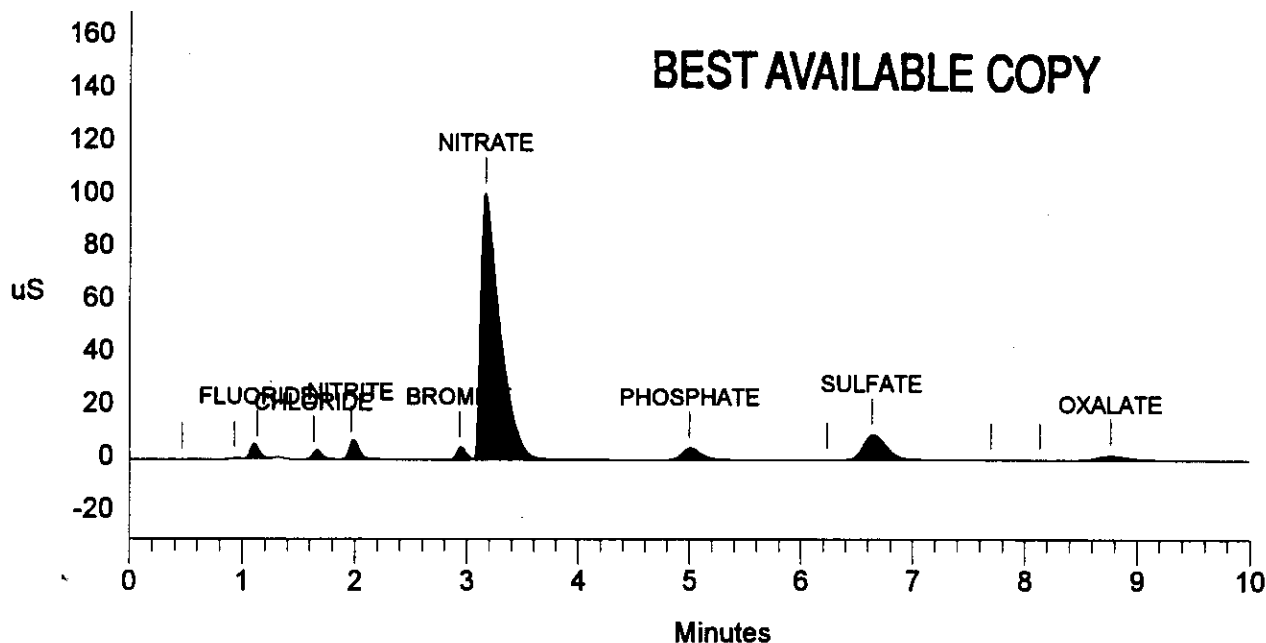
Analyst : Ed Colvin Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.93		0.000	223867	867200	1	
3	1.13	FLUORIDE	40.223	4198845	29194080	1	3.03
4	1.63	CHLORIDE	37.403	2479111	19546080	1	0.00
5	1.97	NITRITE	119.817	6280186	45511108	1	0.00
6	2.93	BROMIDE	111.504	4577311	27492236	2	1.15
7	3.17	NITRATE	2142.430	101096126	1197260684	2	-3.06
8	5.00	PHOSPHATE	343.834	4485675	56415795	2	1.35
10	6.63	SULFATE	326.392	9450357	139698646	3	2.05
13	8.77	OXALATE	120.585	1713221	34401826	1	2.73
Totals			3242.187	134504697	1550387655		

File: 95101301.D09 Sample: S95T001858 SPK .5-10



WHC-CD-WM-OP-132, REV. 1

344.56

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=====
Sample Name: S95T001858 SPK .1-10          Date: 10/13/1995 10:05:54
Data File  : C:\DX\DATA\95101301.D08
Method     : C:\DX\METHOD\ANIONS.MET
\CI Address: 1 System: 2 Inject#: 8          Detector: CDM-2
Analyst    : Ed Colvin      Column:
=====

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```

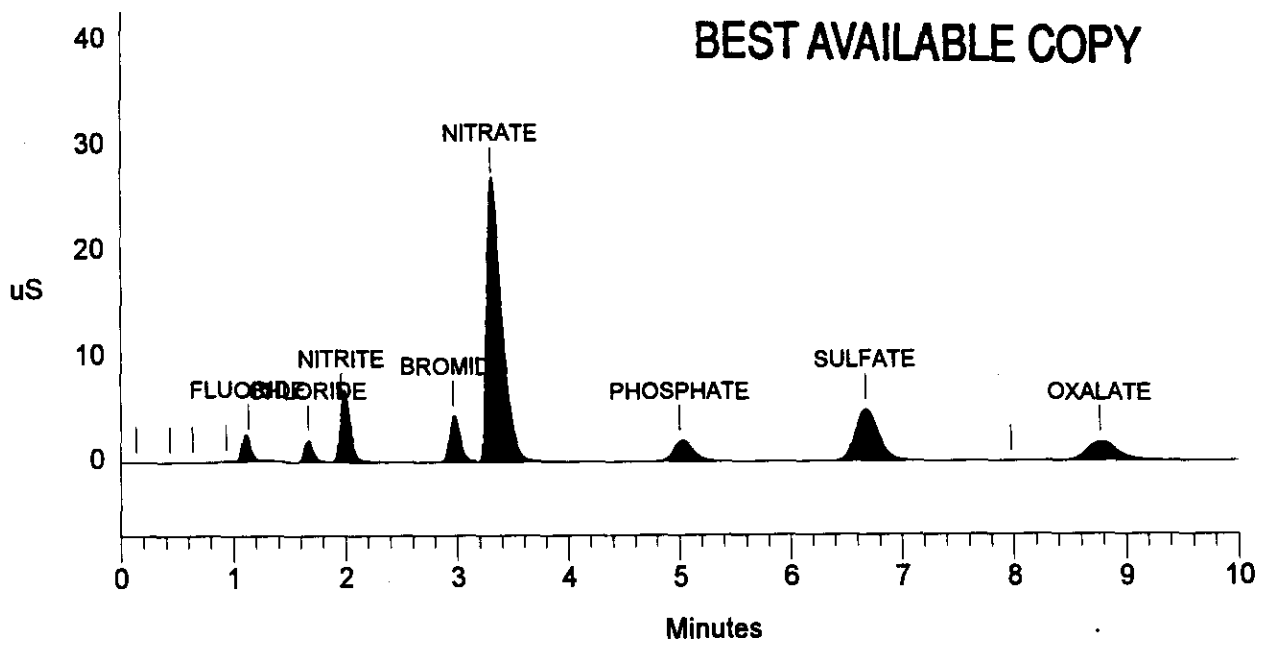
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101    3000   5Hz   0.00 10.00   500000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
5	1.13	FLUORIDE	98.268	2093057	14388080	1	3.03
6	1.67	CHLORIDE	107.068	2071637	11477292	1	2.04
7	1.97	NITRITE	543.853	5109491	42885168	1	0.00
8	2.97	BROMIDE	573.765	4421294	29472867	2	2.30
9	3.30	NITRATE	3424.531	26445342	251581126	2	1.02
10	5.00	PHOSPHATE	796.924	1959686	26495890	2	1.35
11	6.67	SULFATE	841.329	4990925	73138127	3	2.56
13	8.77	OXALATE	605.136	1791728	35906936	1	2.73
Totals			6990.873	48883159	485345485		

File: 95101301.D08 Sample: S95T001858 SPK .1-10



WHIC-00-WM-DP-132, REV. 1

344.57

LABCORE Data Entry Template for Worklist#

2853

Analyst: EC Instrument: IC01 IC02 Book # 109N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-104 IC water digests, need Br. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			QIC-QC F-QC	QC	1	<.063	N/A	ug/mL
		1 CCB			QIC-QC CL-QC	QC		<.084	N/A	ug/mL
		1 CCB			QIC-QC NO2-QC	QC		<.554	N/A	ug/mL
		1 CCB			QIC-QC BR-QC	QC		<.699 ²⁵	N/A	ug/mL
		1 CCB			QIC-QC NO3-QC	QC		<.699	N/A	ug/mL
		1 CCB			QIC-QC PO4-QC	QC		<.596	N/A	ug/mL
		1 CCB			QIC-QC SO4-QC	QC		<.678	N/A	ug/mL
		1 CCB			QIC-QC OXALATQC	QC	↓	<.526	N/A	ug/mL
		2 CCV			QIC-QC F-QC	QC	59	5.79 ^{E1}	N/A	ug/mL
		2 CCV			QIC-QC CL-QC	QC	79	7.67 ^{E1}	N/A	ug/mL
		2 CCV			QIC-QC NO2-QC	QC	533	5.00 ^{E2}	N/A	ug/mL
		2 CCV			QIC-QC BR-QC	QC	575	5.89 ^{E2}	N/A	ug/mL
		2 CCV			QIC-QC NO3-QC	QC	614	5.89 ^{E2}	N/A	ug/mL
		2 CCV			QIC-QC PO4-QC	QC	546	4.99 ^{E2}	N/A	ug/mL
		2 CCV			QIC-QC SO4-QC	QC	631	6.02 ^{E2}	N/A	ug/mL
		2 CCV			QIC-QC OXALATQC	QC	526	5.01 ^{E2}	N/A	ug/mL
		3 BLNK-PREP			QIC-01 F-02	SOLID	1	<.063	N/A	ug/g
		3 BLNK-PREP			QIC-01 CL-02	SOLID	↓	<.084	N/A	ug/g

Data Entry Comments: LACS 109N9A .1ml - 10ml
Spike 109N9A .1ml

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

2853

JUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		3	BLNK-PREP				QIC-01 NO2-02	SOLID	1	2554	N/A	ug/g
		3	BLNK-PREP				QIC-01 BR-02	SOLID		2.632	N/A	ug/g
		3	BLNK-PREP				QIC-01 NO3-02	SOLID		2.699	N/A	ug/g
		3	BLNK-PREP				QIC-01 PO4-02	SOLID		2.596	N/A	ug/g
		3	BLNK-PREP				QIC-01 SO4-02	SOLID		2.678	N/A	ug/g
		3	BLNK-PREP				QIC-01 OXALATE2	SOLID	✓	2.526	N/A	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 F-02	SOLID	N/A	2.96 ^{E3}	5.90 ^{E2}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 CL-02	SOLID	N/A	2.20 ^{E3}	7.86 ^{E2}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 NO2-02	SOLID	N/A	2.96 ^{E3}	5.19 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 BR-02	SOLID	N/A	2.53 ^{E3}	6.54 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 NO3-02	SOLID	N/A	2.10 ^{E4}	5.58 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 PO4-02	SOLID	N/A	1.85 ^{E4}	6.35 ^{E3}	ug/g
95000088	B-104	4	SAMPLE	S95T001860	0	W	QIC-01 OXALATE2	SOLID	N/A	4.92 ^{E3}	4.92 ^{E3}	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 F-02	SOLID	2.96 ^{E3}	2.13 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 CL-02	SOLID	2.20 ^{E3}	2.17 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 NO2-02	SOLID	2.96 ^{E3}	2.13 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 BR-02	SOLID	2.53 ^{E3}	2.60 ^{E3}	N/A	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 NO3-02	SOLID	2.10 ^{E4}	2.22 ^{E4}	N/A	ug/g
95000088	B-104	5	DUP	S95T001860	0	W	QIC-01 PO4-02	SOLID	1.85 ^{E4}	1.88 ^{E4}	N/A	ug/g

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

344.59

LABCORE Data Entry Template for Worklist#

2853

gm f. 10/17/95

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000088	B-104	5 DUP	S95T001860	0 W	QIC-01	OXALATE2	SOLID	<u><4.92</u>	<u><4.88</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	F-02	SOLID	<u>100</u>	<u>99.1</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	CL-02	SOLID	<u>96.1</u>	<u>93.4</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	NO2-02	SOLID	<u>89.9</u>	<u>97.6</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	BR-02	SOLID	<u>99.5</u>	<u>96.6</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	NO3-02	SOLID	<u>110.7</u>	<u>110.6</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	PO4-02	SOLID	<u>99.9</u>	<u>97.0</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	SO4-02	SOLID	<u>96.4</u>	<u>93.6</u>	N/A ug/g
95000088	B-104	6 SPK	S95T001860	0 W	QIC-01	OXALATE2	SOLID	<u>98.2</u>	<u>95.4</u>	N/A ug/g

SM 10/17/95

Final page for worklist #

2853

E. H. Cohn 10-12-95
Analyst Signature Date

Analyst Signature Date

Data entry OK M Green 10-17-95
Verified 10/17/95 [Signature]

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

344-60