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United States Air Force
611th Civil Engineer Squadron

Elmendorf AFB, Alaska

Final

Remedial Investigation Report
Galena Airport and Campion Air Station

Volume 7—Appendix A.1, B.1, and E.1

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APPENDIX A.1

Analytical Data (1995)

APPENDIX A.1

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FOOTNOTE DEFINITIONS

B	Sample concentration was less than or equal to the upper tolerance level (UTL) calculated for the blanks for that analyte in that media. These data are considered indistinguishable from blank concentrations.
E	Analyte exceeded calibration range, but did not saturate the detector, therefore data is usable.
F	Co-elution or interference was suspected in the determination of the concentration of the flagged compound. These data may be biased high due to interference, although the QA/QC data for the sample were within acceptance criteria. These data are considered conservative (biased high) concentrations and are used in the risk assessment.
J	Result is less than sample specific detection limit. Data with this flag should be interpreted with caution.
K	The presence of the analyte was not confirmed because the compound was not detected on both the primary and secondary columns. Only "KJ" flagged data are reported and are intended for use as proxy values for risk assessment. This flag is used on methods requiring second column confirmation (SW8010, SW8015, SW8015MP, SW8020, and SW8080).
L	QC evaluation determined that the result may be biased low, see QA report. This flag is used only on 1992 data.
NA	Sample not analyzed for the indicated parameter. In the case of SW8080, when results are reported for some compounds, the NA indicate that high concentrations of other target analytes precluded the determination of the flagged compound.
ND	Not detected. No instrument response for analyte or result less than zero.
P	The identification of the compound is not confirmed because the ratio of results from the primary and secondary columns differ by greater than a factor of three. The lower of the two values is reported with a "P" flag, since co-elution with a non-target compound is suspected. Although they do not meet the confirmation criteria, it is likely that the compound is present, however the concentration should be regarded as an estimate. This flag is used on methods requiring second column confirmation (SW8010, SW8015, SW8015MP, SW8020, and SW8080).

FOOTNOTE DEFINITIONS- continued

R	Data did not meet QA/QC criteria. See QA/QC evaluation in Appendix F for explanation and discussion.
S	Metal concentration reported was obtained using the method of standard additions. This indicates that the analyst had some reason to believe that there was an interference with the determination, and therefore, the method of standard additions was used to determine the concentration.
T	Second column confirmation was not performed for the flagged compound. In these cases, the sample was analyzed at two different dilutions and the conformational analyses were performed for the samples analyzed at the higher dilution. These data should be considered estimates as they are not confirmed and were measured in the presence of compounds at much higher concentrations.
X	The recoveries of one or more of the internal standards were outside the applicable acceptance criteria. Method appropriate (SW8240, SW8260, and SW8270) corrective actions were implemented to confirm matrix interferences. The X-flag indicates which compounds were quantitated using the affected internal standard(s).
Y	Sample was analyzed at lowest possible dilution. Dilution required due to extract viscosity and/or matrix effects.
Z	Oily drops suspended in sample extract. An homogenous sub-sample of the extract was analyzed.

TABLE A-17 RESULTS FOR FIELD ANALYSES OF WATER SAMPLES, GALENA 1995.

PARAMETER	SITE ID / LOCATION ID / SAMPLE ID											
	02 GW-01 G95-02-GW-01-UT			02 GW-01 G95-02-GW-01-UT-FD Dup of G95-02-GW-01-UT			02 GW-03 G95-02-GW-03-UT			SE GW-04 G95-02-GW-04-UT		
A403 - Alkalinity (mg/L)												
Alkalinity	223	()	[1]	217	()	[1]	235	()	[1]	235	()	[1]
E170.1 - Temperature (degC)												
Temperature	6.00	()	[1]	7.00	()	[1]	4.00	()	[1]	6.00	()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS)												
pH	6.48	()	[1]	6.81	()	[1]	6.85	()	[1]	6.89	()	[1]
SW9050 - Specific Conductance (umhos/cm)												
Conductivity	500	()	[1]	490	()	[1]	480	()	[1]	500	()	[1]

Compiled: 2 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	02 SINK G95-02-GW-05-AT			SE MW-01 G95-SE-MW-01-01			SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01			SE MW-02 G95-SE-MW-02-01		
A403 - Alkalinity (mg/L)												
Alkalinity	205	()	[1]	988	()	[1]	925	()	[1]	600	()	[1]
E170.1 - Temperature (degC)												
Temperature	11.0	()	[1]	1.70	()	[1]	1.70	()	[1]	1.70	()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS)												
pH	7.22	()	[1]	6.72	()	[1]	6.72	()	[1]	6.90	()	[1]
SW9050 - Specific Conductance (umhos/cm)												
Conductivity	500	()	[1]	1517	()	[1]	1517	()	[1]	520	()	[1]

PARAMETER	SE MW-03 G95-SE-MW-03-01			SE MW-04 G95-SE-MW-04-01		
A403 - Alkalinity (mg/L)						
Alkalinity	266	()	[1]	382	()	[1]
E170.1 - Temperature (degC)						
Temperature	1.70	()	[1]	1.70	()	[1]
SW9040 - pH Electrometric Measurement (pH UNITS)						
pH	6.90	()	[1]	6.67	()	[1]
SW9050 - Specific Conductance (umhos/cm)						
Conductivity	520	()	[1]	930	()	[1]

TABLE A-18 RESULTS FOR ORGANIC ANALYSES OF WATER SAMPLES, GALENA 1995.

PARAMETER	SITE ID / LOCATION ID / SAMPLE ID															
	SE GP-01 G95-SE-GP-01				SE GP-01 G95-SE-GP-01-FD Dup of G95-SE-GP-01				SE GP-02 G95-SE-GP-02				SE GP-03 G95-SE-GP-03			
AK102 - Diesel Range Organics (ug/L)																
Diesel	9200	(	100)	[1]	10000	(	100)	[1]	940	(	100)	[1]	200	(	100)	[1]

Compiled: 10 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE GP-04 G95-SE-GP-04	SE GP-05 G95-SE-GP-05	SE GP-06 G95-SE-GP-06	SE GP-07 G95-SE-GP-07
AK102 - Diesel Range Organics (ug/L)				
Diesel	30.0 J (100) [1]	ND (100) [1]	80.0 J (100) [1]	130 (100) [1]

Compiled: 10 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE GP-08 G95-SE-GP-08	SE GP-09 G95-SE-GP-09	SE GP-10 G95-SE-GP-10	SE MW-01 G95-SE-MW-01-01
AK101 - Gasoline Range Organics (ug/L)				
Gasoline	NA	NA	NA	790 (50.0) [1]
AK102 - Diesel Range Organics (ug/L)				
Diesel	130 (100) [1]	80.0 J (100) [1]	60.0 J (100) [1]	9300 (100) [1]
SW8260 - Volatile Organic Compounds (ug/L)				
1,1,1,2-Tetrachloroethane	NA	NA	NA	ND (0.399) [3]
1,1,1-Trichloroethane	NA	NA	NA	ND (0.360) [3]
1,1,2,2-Tetrachloroethane	NA	NA	NA	ND (0.212) [3]
1,1,2-Trichloroethane	NA	NA	NA	ND (0.203) [3]
1,1-Dichloroethane	NA	NA	NA	ND (0.194) [3]
1,1-Dichloroethene	NA	NA	NA	ND (0.636) [3]
1,2,3-Trichloropropane	NA	NA	NA	ND (0.271) [3]
1,2-Dichlorobenzene	NA	NA	NA	ND (0.546) [3]
1,2-Dichloroethane	NA	NA	NA	1.07 (0.144) [3]
1,2-Dichloropropane	NA	NA	NA	ND (0.132) [3]
1,3-Dichlorobenzene	NA	NA	NA	ND (0.684) [3]
1,4-Dichlorobenzene	NA	NA	NA	ND (0.648) [3]
1-Chlorohexane	NA	NA	NA	ND (1.07) [3]
2-Butanone(MEK)	NA	NA	NA	ND (3.87) [3]
2-Chloroethyl vinyl ether	NA	NA	NA	ND (0.393) [3]
2-Hexanone	NA	NA	NA	ND (1.04) [3]
4-Methyl-2-Pentanone(MIBK)	NA	NA	NA	ND (0.948) [3]
Acetone	NA	NA	NA	7.86 B (6.90) [3]
Benzene	NA	NA	NA	58.1 (0.366) [3]
Bromobenzene	NA	NA	NA	ND (0.501) [3]
Bromodichloromethane	NA	NA	NA	ND (0.139) [3]
Bromoform	NA	NA	NA	ND (0.408) [3]
Bromomethane	NA	NA	NA	ND (0.150) [3]
Carbon disulfide	NA	NA	NA	ND (0.570) [3]
Carbon tetrachloride	NA	NA	NA	ND (0.393) [3]
Chlorobenzene	NA	NA	NA	ND (0.615) [3]
Chloroethane	NA	NA	NA	ND (0.269) [3]
Chloroform	NA	NA	NA	ND (0.296) [3]
Chloromethane	NA	NA	NA	ND (0.268) [3]
Dibromochloromethane	NA	NA	NA	ND (0.261) [3]

PARAMETER	SE GP-08 G95-SE-GP-08	SE GP-09 G95-SE-GP-09	SE GP-10 G95-SE-GP-10	SE MW-01 G95-SE-MW-01-01
SW8260 - Volatile Organic Compounds, cont. (ug/L)				
Dibromomethane	NA	NA	NA	0.559 B (0.321) [3]
Ethylbenzene	NA	NA	NA	21.6 (0.738) [3]
Methylene chloride	NA	NA	NA	1.00 BJ (1.27) [3]
Styrene	NA	NA	NA	ND (0.552) [3]
Tetrachloroethene	NA	NA	NA	1.74 B (1.26) [3]
Toluene	NA	NA	NA	6.00 (0.489) [3]
Trichloroethene	NA	NA	NA	0.206 J (0.591) [3]
Trichlorofluoromethane	NA	NA	NA	ND (0.300) [3]
Vinyl acetate	NA	NA	NA	ND (1.14) [3]
Vinyl chloride	NA	NA	NA	ND (0.209) [3]
cis-1,2-Dichloroethene	NA	NA	NA	ND (0.312) [3]
cis-1,3-Dichloropropene	NA	NA	NA	ND (0.348) [3]
m&p-Xylenes	NA	NA	NA	28.4 (1.66) [3]
o-Xylene	NA	NA	NA	10.8 (0.621) [3]
trans-1,2-Dichloroethene	NA	NA	NA	ND (0.636) [3]
trans-1,3-Dichloropropene	NA	NA	NA	ND (0.217) [3]
SW8270 - Semivolatile Organics (ug/L)				
1,2,4-Trichlorobenzene	NA	NA	NA	ND (0.996) [1]
1,2-Dichlorobenzene	NA	NA	NA	ND (0.977) [1]
1,3-Dichlorobenzene	NA	NA	NA	ND (1.04) [1]
1,4-Dichlorobenzene	NA	NA	NA	ND (1.01) [1]
2,4,5-Trichlorophenol	NA	NA	NA	ND (0.812) [1]
2,4,6-Trichlorophenol	NA	NA	NA	ND (0.976) [1]
2,4-Dichlorophenol	NA	NA	NA	ND (1.09) [1]
2,4-Dimethylphenol	NA	NA	NA	ND (1.03) [1]
2,4-Dinitrophenol	NA	NA	NA	ND (2.59) [1]
2,4-Dinitrotoluene	NA	NA	NA	ND (0.991) [1]
2,6-Dinitrotoluene	NA	NA	NA	ND (0.805) [1]
2-Chloronaphthalene	NA	NA	NA	ND (0.796) [1]
2-Chlorophenol	NA	NA	NA	ND (0.799) [1]
2-Methylnaphthalene	NA	NA	NA	98.9 (0.924) [1]
2-Methylphenol	NA	NA	NA	ND (0.700) [1]
2-Nitroaniline	NA	NA	NA	ND (0.951) [1]
2-Nitrophenol	NA	NA	NA	ND (0.884) [1]
3,3'-Dichlorobenzidine	NA	NA	NA	ND (0.647) [1]

Compiled: 10 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE GP-08 G95-SE-GP-08	SE GP-09 G95-SE-GP-09	SE GP-10 G95-SE-GP-10	SE MW-01 G95-SE-MW-01-01			
SW8270 - Semivolatile Organics, cont. (ug/L)							
3-Nitroaniline	NA	NA	NA	ND		(1.08)	[1]
4,6-Dinitro-2-methylphenol	NA	NA	NA	ND		(1.06)	[1]
4-Bromophenyl phenyl ether	NA	NA	NA	ND		(6.08)	[1]
4-Chloro-3-methylphenol	NA	NA	NA	ND		(0.866)	[1]
4-Chlorophenyl phenyl ether	NA	NA	NA	ND		(0.985)	[1]
4-Methylphenol/3-Methylphenol	NA	NA	NA	ND		(0.753)	[1]
4-Nitroaniline	NA	NA	NA	ND		(1.20)	[1]
4-Nitrophenol	NA	NA	NA	ND		(1.36)	[1]
Acenaphthene	NA	NA	NA	0.792	J	(1.01)	[1]
Acenaphthylene	NA	NA	NA	ND		(0.880)	[1]
Anthracene	NA	NA	NA	ND		(0.751)	[1]
Benzo(a)anthracene	NA	NA	NA	ND		(0.762)	[1]
Benzo(a)pyrene	NA	NA	NA	ND		(0.585)	[1]
Benzo(b)fluoranthene	NA	NA	NA	ND		(0.698)	[1]
Benzo(g,h,i)perylene	NA	NA	NA	ND		(0.676)	[1]
Benzo(k)fluoranthene	NA	NA	NA	ND		(1.16)	[1]
Benzoic acid	NA	NA	NA	ND		(6.03)	[1]
Benzyl alcohol	NA	NA	NA	ND		(0.642)	[1]
Butylbenzylphthalate	NA	NA	NA	ND		(0.962)	[1]
Chrysene	NA	NA	NA	ND		(0.858)	[1]
Di-n-butylphthalate	NA	NA	NA	0.476	J	(0.873)	[1]
Di-n-octylphthalate	NA	NA	NA	ND		(0.397)	[1]
Dibenz(a,h)anthracene	NA	NA	NA	ND		(0.648)	[1]
Dibenzofuran	NA	NA	NA	ND		(0.865)	[1]
Diethylphthalate	NA	NA	NA	ND		(0.962)	[1]
Dimethylphthalate	NA	NA	NA	ND		(0.808)	[1]
Diphenylamine (N-Nitrosodiphenylamine)	NA	NA	NA	ND		(0.960)	[1]
Fluoranthene	NA	NA	NA	ND		(0.751)	[1]
Fluorene	NA	NA	NA	1.29		(1.04)	[1]
Hexachlorobenzene	NA	NA	NA	ND		(0.656)	[1]
Hexachlorobutadiene	NA	NA	NA	ND		(1.45)	[1]
Hexachlorocyclopentadiene	NA	NA	NA	ND		(2.26)	[1]
Hexachloroethane	NA	NA	NA	ND		(1.02)	[1]
Indeno(1,2,3-cd)pyrene	NA	NA	NA	ND		(0.551)	[1]
Isophorone	NA	NA	NA	ND		(0.770)	[1]
N-Nitroso-di-n-propylamine	NA	NA	NA	ND		(0.896)	[1]

PARAMETER	SE GP-08 G95-SE-GP-08	SE GP-09 G95-SE-GP-09	SE GP-10 G95-SE-GP-10	SE MW-01 G95-SE-MW-01-01
SW8270 - Semivolatile Organics, cont. (ug/L)				
Naphthalene	NA	NA	NA	80.7 (1.00) [1]
Nitrobenzene	NA	NA	NA	ND (0.756) [1]
Pentachlorophenol	NA	NA	NA	ND (0.834) [1]
Phenanthrene	NA	NA	NA	0.739 J (0.932) [1]
Phenol	NA	NA	NA	ND (0.416) [1]
Pyrene	NA	NA	NA	ND (0.858) [1]
bis(2-Chloroethoxy)methane	NA	NA	NA	ND (0.967) [1]
bis(2-Chloroethyl)ether	NA	NA	NA	ND (0.857) [1]
bis(2-Chloroisopropyl)ether	NA	NA	NA	ND (0.891) [1]
bis(2-Ethylhexyl)phthalate	NA	NA	NA	ND (0.731) [1]
p-Chloroaniline	NA	NA	NA	ND (0.963) [1]

PARAMETER	SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01				SE MW-02 G95-SE-MW-02-01				SE MW-03 G95-SE-MW-03-01				SE MW-04 G95-SE-MW-04-01			
AK101 - Gasoline Range Organics (ug/L)																
Gasoline	1000		(50.0)	[1]	21.0	J	(50.0)	[1]	15.0	J	(50.0)	[1]	12.0	J	(50.0)	[1]
AK102 - Diesel Range Organics (ug/L)																
Diesel	5500		(100)	[1]	770		(100)	[1]	710		(100)	[1]	330		(100)	[1]
SW8260 - Volatile Organic Compounds (ug/L)																
1,1,1,2-Tetrachloroethane	ND		(0.399)	[3]	ND		(0.133)	[1]	ND		(0.133)	[1]	ND		(0.133)	[1]
1,1,1-Trichloroethane	ND		(0.360)	[3]	ND		(0.120)	[1]	ND		(0.120)	[1]	ND		(0.120)	[1]
1,1,2,2-Tetrachloroethane	ND		(0.212)	[3]	ND		(0.0708)	[1]	ND		(0.0708)	[1]	ND		(0.0708)	[1]
1,1,2-Trichloroethane	ND		(0.203)	[3]	ND		(0.0678)	[1]	ND		(0.0678)	[1]	ND		(0.0678)	[1]
1,1-Dichloroethane	ND		(0.194)	[3]	ND		(0.0646)	[1]	ND		(0.0646)	[1]	ND		(0.0646)	[1]
1,1-Dichloroethene	ND		(0.636)	[3]	ND		(0.212)	[1]	ND		(0.212)	[1]	ND		(0.212)	[1]
1,2,3-Trichloropropane	ND		(0.271)	[3]	ND		(0.0902)	[1]	ND		(0.0902)	[1]	ND		(0.0902)	[1]
1,2-Dichlorobenzene	ND		(0.546)	[3]	ND		(0.182)	[1]	ND		(0.182)	[1]	ND		(0.182)	[1]
1,2-Dichloroethane	1.04		(0.144)	[3]	ND		(0.0481)	[1]	ND		(0.0481)	[1]	4.55		(0.0481)	[1]
1,2-Dichloropropane	ND		(0.132)	[3]	ND		(0.0440)	[1]	ND		(0.0440)	[1]	ND		(0.0440)	[1]
1,3-Dichlorobenzene	ND		(0.684)	[3]	ND		(0.228)	[1]	ND		(0.228)	[1]	ND		(0.228)	[1]
1,4-Dichlorobenzene	ND		(0.648)	[3]	ND		(0.216)	[1]	ND		(0.216)	[1]	ND		(0.216)	[1]
1-Chlorohexane	ND		(1.07)	[3]	ND		(0.357)	[1]	ND		(0.357)	[1]	ND		(0.357)	[1]
2-Butanone(MEK)	ND		(3.87)	[3]	ND		(1.29)	[1]	ND		(1.29)	[1]	ND		(1.29)	[1]
2-Chloroethyl vinyl ether	ND		(0.393)	[3]	ND		(0.131)	[1]	ND		(0.131)	[1]	ND		(0.131)	[1]
2-Hexanone	ND		(1.04)	[3]	ND		(0.347)	[1]	ND		(0.347)	[1]	ND		(0.347)	[1]
4-Methyl-2-Pentanone(MIBK)	ND		(0.948)	[3]	ND		(0.316)	[1]	ND		(0.316)	[1]	ND		(0.316)	[1]
Acetone	7.98	B	(6.90)	[3]	2.80	B	(2.30)	[1]	2.59	B	(2.30)	[1]	13.5	B	(2.30)	[1]
Benzene	58.5		(0.366)	[3]	ND		(0.122)	[1]	ND		(0.122)	[1]	0.0505	J	(0.122)	[1]
Bromobenzene	ND		(0.501)	[3]	ND		(0.167)	[1]	ND		(0.167)	[1]	ND		(0.167)	[1]
Bromodichloromethane	ND		(0.139)	[3]	ND		(0.0462)	[1]	ND		(0.0462)	[1]	ND		(0.0462)	[1]
Bromoform	ND		(0.408)	[3]	ND		(0.136)	[1]	ND		(0.136)	[1]	ND		(0.136)	[1]
Bromomethane	ND		(0.150)	[3]	ND		(0.0500)	[1]	ND		(0.0500)	[1]	ND		(0.0500)	[1]
Carbon disulfide	ND		(0.570)	[3]	ND		(0.190)	[1]	ND		(0.190)	[1]	ND		(0.190)	[1]
Carbon tetrachloride	ND		(0.393)	[3]	ND		(0.131)	[1]	ND		(0.131)	[1]	ND		(0.131)	[1]
Chlorobenzene	ND		(0.615)	[3]	ND		(0.205)	[1]	ND		(0.205)	[1]	ND		(0.205)	[1]
Chloroethane	ND		(0.269)	[3]	ND		(0.0898)	[1]	ND		(0.0898)	[1]	0.0589	J	(0.0898)	[1]
Chloroform	ND		(0.296)	[3]	ND		(0.0985)	[1]	ND		(0.0985)	[1]	0.0388	J	(0.0985)	[1]
Chloromethane	ND		(0.268)	[3]	ND		(0.0893)	[1]	ND		(0.0893)	[1]	1.19		(0.0893)	[1]

Compiled: 10 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01				SE MW-02 G95-SE-MW-02-01				SE MW-03 G95-SE-MW-03-01				SE MW-04 G95-SE-MW-04-01			
SW8260 - Volatile Organic Compounds, cont. (ug/L)																
Dibromochloromethane	ND		(0.261)	[3]	ND		(0.0870)	[1]	ND		(0.0870)	[1]	ND		(0.0870)	[1]
Dibromomethane	0.779	B	(0.321)	[3]	0.189	B	(0.107)	[1]	0.217	B	(0.107)	[1]	0.217	B	(0.107)	[1]
Ethylbenzene	21.1		(0.738)	[3]	ND		(0.246)	[1]	ND		(0.246)	[1]	0.0438	J	(0.246)	[1]
Methylene chloride	1.04	BJ	(1.27)	[3]	0.423	BJ	(0.423)	[1]	0.180	BJ	(0.423)	[1]	0.291	BJ	(0.423)	[1]
Styrene	ND		(0.552)	[3]	ND		(0.184)	[1]	ND		(0.184)	[1]	ND		(0.184)	[1]
Tetrachloroethene	3.43		(1.26)	[3]	0.0346	BJ	(0.420)	[1]	ND		(0.420)	[1]	0.0289	BJ	(0.420)	[1]
Toluene	6.01		(0.489)	[3]	0.195		(0.163)	[1]	0.202		(0.163)	[1]	0.256		(0.163)	[1]
Trichloroethene	ND		(0.591)	[3]	0.0348	J	(0.197)	[1]	ND		(0.197)	[1]	0.0208	J	(0.197)	[1]
Trichlorofluoromethane	ND		(0.300)	[3]	ND		(0.0999)	[1]	ND		(0.0999)	[1]	ND		(0.0999)	[1]
Vinyl acetate	ND		(1.14)	[3]	ND		(0.381)	[1]	ND		(0.381)	[1]	ND		(0.381)	[1]
Vinyl chloride	ND		(0.209)	[3]	ND		(0.0697)	[1]	ND		(0.0697)	[1]	ND		(0.0697)	[1]
cis-1,2-Dichloroethene	ND		(0.312)	[3]	ND		(0.104)	[1]	ND		(0.104)	[1]	ND		(0.104)	[1]
cis-1,3-Dichloropropene	ND		(0.348)	[3]	ND		(0.116)	[1]	ND		(0.116)	[1]	ND		(0.116)	[1]
m&p-Xylenes	28.1		(1.66)	[3]	ND		(0.554)	[1]	ND		(0.554)	[1]	0.172	J	(0.554)	[1]
o-Xylene	10.9		(0.621)	[3]	ND		(0.207)	[1]	ND		(0.207)	[1]	ND		(0.207)	[1]
trans-1,2-Dichloroethene	ND		(0.636)	[3]	ND		(0.212)	[1]	ND		(0.212)	[1]	ND		(0.212)	[1]
trans-1,3-Dichloropropene	ND		(0.217)	[3]	ND		(0.0724)	[1]	ND		(0.0724)	[1]	ND		(0.0724)	[1]
SW8270 - Semivolatile Organics (ug/L)																
1,2,4-Trichlorobenzene	ND		(0.996)	[1]	ND		(1.04)	[1]	ND		(1.05)	[1]	ND		(1.01)	[1]
1,2-Dichlorobenzene	ND		(0.977)	[1]	ND		(1.02)	[1]	ND		(1.03)	[1]	ND		(0.992)	[1]
1,3-Dichlorobenzene	ND		(1.04)	[1]	ND		(1.08)	[1]	ND		(1.09)	[1]	ND		(1.06)	[1]
1,4-Dichlorobenzene	ND		(1.01)	[1]	ND		(1.05)	[1]	ND		(1.06)	[1]	ND		(1.03)	[1]
2,4,5-Trichlorophenol	ND		(0.812)	[1]	ND		(0.846)	[1]	ND		(0.855)	[1]	ND		(0.824)	[1]
2,4,6-Trichlorophenol	ND		(0.976)	[1]	ND		(1.02)	[1]	ND		(1.03)	[1]	ND		(0.991)	[1]
2,4-Dichlorophenol	ND		(1.09)	[1]	ND		(1.14)	[1]	ND		(1.15)	[1]	ND		(1.11)	[1]
2,4-Dimethylphenol	ND		(1.03)	[1]	ND		(1.07)	[1]	ND		(1.08)	[1]	ND		(1.05)	[1]
2,4-Dinitrophenol	ND		(2.59)	[1]	ND		(2.70)	[1]	ND		(2.73)	[1]	ND		(2.63)	[1]
2,4-Dinitrotoluene	ND		(0.991)	[1]	ND		(1.03)	[1]	ND		(1.04)	[1]	ND		(1.01)	[1]
2,6-Dinitrotoluene	ND		(0.805)	[1]	ND		(0.839)	[1]	ND		(0.847)	[1]	ND		(0.817)	[1]
2-Chloronaphthalene	ND		(0.796)	[1]	ND		(0.829)	[1]	ND		(0.838)	[1]	ND		(0.808)	[1]
2-Chlorophenol	ND		(0.799)	[1]	ND		(0.832)	[1]	ND		(0.841)	[1]	ND		(0.811)	[1]
2-Methylnaphthalene	107		(0.924)	[1]	ND		(0.962)	[1]	ND		(0.973)	[1]	ND		(0.938)	[1]
2-Methylphenol	ND		(0.700)	[1]	ND		(0.729)	[1]	ND		(0.737)	[1]	ND		(0.711)	[1]
2-Nitroaniline	ND		(0.951)	[1]	ND		(0.991)	[1]	ND		(1.00)	[1]	ND		(0.965)	[1]

PARAMETER	SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01				SE MW-02 G95-SE-MW-02-01				SE MW-03 G95-SE-MW-03-01				SE MW-04 G95-SE-MW-04-01			
SW8270 - Semivolatile Organics, cont. (ug/L)																
2-Nitrophenol	ND		(0.884)	[1]	ND	(0.921)	[1]		ND	(0.931)	[1]		ND	(0.897)	[1]	
3,3'-Dichlorobenzidine	ND		(0.647)	[1]	ND	(0.674)	[1]		ND	(0.681)	[1]		ND	(0.657)	[1]	
3-Nitroaniline	ND		(1.08)	[1]	ND	(1.12)	[1]		ND	(1.14)	[1]		ND	(1.10)	[1]	
4,6-Dinitro-2-methylphenol	ND		(1.06)	[1]	ND	(1.10)	[1]		ND	(1.12)	[1]		ND	(1.08)	[1]	
4-Bromophenyl phenyl ether	ND		(6.08)	[1]	ND	(6.33)	[1]		ND	(6.40)	[1]		ND	(6.17)	[1]	
4-Chloro-3-methylphenol	ND		(0.866)	[1]	ND	(0.902)	[1]		ND	(0.912)	[1]		ND	(0.879)	[1]	
4-Chlorophenyl phenyl ether	ND		(0.985)	[1]	ND	(1.03)	[1]		ND	(1.04)	[1]		ND	(1.00)	[1]	
4-Methylphenol/3-Methylphenol	ND		(0.753)	[1]	ND	(0.784)	[1]		ND	(0.793)	[1]		ND	(0.764)	[1]	
4-Nitroaniline	ND		(1.20)	[1]	ND	(1.25)	[1]		ND	(1.26)	[1]		ND	(1.22)	[1]	
4-Nitrophenol	ND		(1.36)	[1]	ND	(1.42)	[1]		ND	(1.43)	[1]		ND	(1.38)	[1]	
Acenaphthene	0.907	J	(1.01)	[1]	ND	(1.05)	[1]		ND	(1.06)	[1]		ND	(1.03)	[1]	
Acenaphthylene	ND		(0.880)	[1]	ND	(0.917)	[1]		ND	(0.926)	[1]		ND	(0.893)	[1]	
Anthracene	ND		(0.751)	[1]	ND	(0.782)	[1]		ND	(0.791)	[1]		ND	(0.762)	[1]	
Benzo(a)anthracene	ND		(0.762)	[1]	ND	(0.794)	[1]		ND	(0.802)	[1]		ND	(0.774)	[1]	
Benzo(a)pyrene	ND		(0.585)	[1]	ND	(0.609)	[1]		ND	(0.616)	[1]		ND	(0.594)	[1]	
Benzo(b)fluoranthene	ND		(0.698)	[1]	ND	(0.727)	[1]		ND	(0.735)	[1]		ND	(0.709)	[1]	
Benzo(g,h,i)perylene	ND		(0.676)	[1]	ND	(0.704)	[1]		ND	(0.712)	[1]		ND	(0.686)	[1]	
Benzo(k)fluoranthene	ND		(1.16)	[1]	ND	(1.21)	[1]		ND	(1.22)	[1]		ND	(1.18)	[1]	
Benzoic acid	ND		(6.03)	[1]	ND	(6.28)	[1]		ND	(6.35)	[1]		ND	(6.12)	[1]	
Benzyl alcohol	ND		(0.642)	[1]	ND	(0.669)	[1]		ND	(0.676)	[1]		3.13	(0.652)	[1]	
Butylbenzylphthalate	ND		(0.962)	[1]	ND	(1.00)	[1]		ND	(1.01)	[1]		ND	(0.977)	[1]	
Chrysene	ND		(0.858)	[1]	ND	(0.894)	[1]		ND	(0.903)	[1]		ND	(0.871)	[1]	
Di-n-butylphthalate	0.523	J	(0.873)	[1]	ND	(0.909)	[1]		ND	(0.919)	[1]		ND	(0.886)	[1]	
Di-n-octylphthalate	ND		(0.397)	[1]	ND	(0.414)	[1]		ND	(0.418)	[1]		ND	(0.403)	[1]	
Dibenz(a,h)anthracene	ND		(0.648)	[1]	ND	(0.675)	[1]		ND	(0.682)	[1]		ND	(0.658)	[1]	
Dibenzofuran	ND		(0.865)	[1]	ND	(0.901)	[1]		ND	(0.911)	[1]		ND	(0.878)	[1]	
Diethylphthalate	ND		(0.962)	[1]	ND	(1.00)	[1]		ND	(1.01)	[1]		ND	(0.977)	[1]	
Dimethylphthalate	ND		(0.808)	[1]	ND	(0.842)	[1]		ND	(0.851)	[1]		ND	(0.820)	[1]	
Diphenylamine (N-Nitrosodiphenylamine)	ND		(0.960)	[1]	ND	(1.00)	[1]		ND	(1.01)	[1]		ND	(0.975)	[1]	
Fluoranthene	ND		(0.751)	[1]	ND	(0.782)	[1]		ND	(0.791)	[1]		ND	(0.762)	[1]	
Fluorene	1.52		(1.04)	[1]	ND	(1.08)	[1]		ND	(1.09)	[1]		ND	(1.06)	[1]	
Hexachlorobenzene	ND		(0.656)	[1]	ND	(0.683)	[1]		ND	(0.691)	[1]		ND	(0.666)	[1]	
Hexachlorobutadiene	ND		(1.45)	[1]	ND	(1.51)	[1]		ND	(1.53)	[1]		ND	(1.47)	[1]	
Hexachlorocyclopentadiene	ND		(2.26)	[1]	ND	(2.35)	[1]		ND	(2.38)	[1]		ND	(2.29)	[1]	
Hexachloroethane	ND		(1.02)	[1]	ND	(1.06)	[1]		ND	(1.07)	[1]		ND	(1.04)	[1]	

PARAMETER	SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01				SE MW-02 G95-SE-MW-02-01				SE MW-03 G95-SE-MW-03-01				SE MW-04 G95-SE-MW-04-01			
SW8270 - Semivolatile Organics, cont. (ug/L)																
Indeno(1,2,3-cd)pyrene	ND	(	0.551)	[1]	ND	(	0.574)	[1]	ND	(	0.580)	[1]	ND	(	0.559)	[1]
Isophorone	ND	(	0.770)	[1]	ND	(	0.802)	[1]	ND	(	0.811)	[1]	ND	(	0.782)	[1]
N-Nitroso-di-n-propylamine	ND	(	0.896)	[1]	ND	(	0.933)	[1]	ND	(	0.943)	[1]	ND	(	0.910)	[1]
Naphthalene	89.2	(	1.00)	[1]	ND	(	1.04)	[1]	ND	(	1.05)	[1]	ND	(	1.02)	[1]
Nitrobenzene	ND	(	0.756)	[1]	ND	(	0.787)	[1]	ND	(	0.796)	[1]	ND	(	0.768)	[1]
Pentachlorophenol	ND	(	0.834)	[1]	ND	(	0.869)	[1]	ND	(	0.878)	[1]	ND	(	0.847)	[1]
Phenanthrene	0.664 J	(	0.932)	[1]	ND	(	0.971)	[1]	ND	(	0.981)	[1]	ND	(	0.946)	[1]
Phenol	ND	(	0.416)	[1]	ND	(	0.433)	[1]	ND	(	0.438)	[1]	ND	(	0.422)	[1]
Pyrene	ND	(	0.858)	[1]	ND	(	0.894)	[1]	ND	(	0.903)	[1]	ND	(	0.871)	[1]
bis(2-Chloroethoxy)methane	ND	(	0.967)	[1]	ND	(	1.01)	[1]	ND	(	1.02)	[1]	ND	(	0.982)	[1]
bis(2-Chloroethyl)ether	ND	(	0.857)	[1]	ND	(	0.893)	[1]	ND	(	0.902)	[1]	ND	(	0.870)	[1]
bis(2-Chloroisopropyl)ether	ND	(	0.891)	[1]	ND	(	0.928)	[1]	ND	(	0.938)	[1]	ND	(	0.905)	[1]
bis(2-Ethylhexyl)phthalate	ND	(	0.731)	[1]	ND	(	0.761)	[1]	ND	(	0.769)	[1]	ND	(	0.742)	[1]
p-Chloroaniline	ND	(	0.963)	[1]	ND	(	1.00)	[1]	ND	(	1.01)	[1]	ND	(	0.978)	[1]

TABLE A-19 RESULTS FOR INORGANIC ANALYSES OF WATER SAMPLES, GALENA 1995.

PARAMETER	SITE ID: SE LOCATION ID: MW-01 SAMPLE ID: G95-SE-MW-01-01				SITE ID: SE LOCATION ID: MW-01 SAMPLE ID: G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01				SITE ID: SE LOCATION ID: MW-02 SAMPLE ID: G95-SE-MW-02-01				SITE ID: SE LOCATION ID: MW-03 SAMPLE ID: G95-SE-MW-03-01			
SW6010 - Metals (mg/L)																
Aluminum	0.0904		(0.0523)	[1]	0.318		(0.0523)	[1]	-0.0291	J	(0.0523)	[1]	-0.000930	J	(0.0523)	[1]
Antimony	0.00583	J	(0.0760)	[1]	0.0812		(0.0760)	[1]	-0.0928	J	(0.0760)	[1]	-0.103	J	(0.0760)	[1]
Arsenic	0.0320	J	(0.0468)	[1]	-0.152	J	(0.0468)	[1]	0.0104	J	(0.0468)	[1]	-0.0326	J	(0.0468)	[1]
Barium	0.632		(0.000860)	[1]	0.648		(0.000860)	[1]	0.164		(0.000860)	[1]	0.197		(0.000860)	[1]
Beryllium	0.00394		(0.000510)	[1]	0.00197		(0.000510)	[1]	0.00	J	(0.000510)	[1]	0.000250	J	(0.000510)	[1]
Cadmium	0.00851	B	(0.00386)	[1]	0.00523	B	(0.00386)	[1]	0.00143	BJ	(0.00386)	[1]	0.00323	BJ	(0.00386)	[1]
Calcium	217		(0.0175)	[1]	223		(0.0175)	[1]	195		(0.0175)	[1]	87.6		(0.0175)	[1]
Chromium	0.00220	J	(0.00524)	[1]	0.00170	J	(0.00524)	[1]	0.00155	J	(0.00524)	[1]	0.00175	J	(0.00524)	[1]
Cobalt	0.0228		(0.00407)	[1]	0.0279		(0.00407)	[1]	0.00176	J	(0.00407)	[1]	0.00	J	(0.00407)	[1]
Copper	0.00	J	(0.00916)	[1]	-0.000510	J	(0.00916)	[1]	0.00255	J	(0.00916)	[1]	0.00714	J	(0.00916)	[1]
Iron	22.0		(0.00452)	[1]	24.4		(0.00452)	[1]	0.124		(0.00452)	[1]	0.0107	B	(0.00452)	[1]
Lead	-0.175	J	(0.0216)	[1]	-0.108	J	(0.0216)	[1]	-0.147	J	(0.0216)	[1]	-0.0920	J	(0.0216)	[1]
Magnesium	63.7		(0.0479)	[1]	65.7		(0.0479)	[1]	44.8		(0.0479)	[1]	9.68		(0.0479)	[1]
Manganese	31.2		(0.00155)	[1]	31.5		(0.00155)	[1]	0.224		(0.00155)	[1]	0.0272		(0.00155)	[1]
Molybdenum	-0.0153	J	(0.00739)	[1]	-0.0283	J	(0.00739)	[1]	-0.0173	J	(0.00739)	[1]	0.00652	J	(0.00739)	[1]
Nickel	0.0418		(0.0141)	[1]	0.0309		(0.0141)	[1]	0.0129	J	(0.0141)	[1]	-0.00697	J	(0.0141)	[1]
Potassium	5.75		(0.822)	[1]	6.77		(0.822)	[1]	3.20		(0.822)	[1]	9.05		(0.822)	[1]
Selenium	0.142		(0.0891)	[1]	-0.00717	J	(0.0891)	[1]	0.0585	J	(0.0891)	[1]	0.0510	J	(0.0891)	[1]
Silver	-0.00430	J	(0.00519)	[1]	-0.000660	J	(0.00519)	[1]	-0.00163	J	(0.00519)	[1]	-0.000820	J	(0.00519)	[1]
Sodium	11.4		(0.0401)	[1]	11.4		(0.0401)	[1]	5.92		(0.0401)	[1]	1.43		(0.0401)	[1]
Thallium	-0.167	J	(0.0833)	[1]	0.0272	J	(0.0833)	[1]	0.0128	J	(0.0833)	[1]	0.0340	J	(0.0833)	[1]
Vanadium	0.00346	J	(0.00454)	[1]	0.00186	J	(0.00454)	[1]	-0.000430	J	(0.00454)	[1]	0.0000300	J	(0.00454)	[1]
Zinc	-0.00463	J	(0.00402)	[1]	-0.00544	J	(0.00402)	[1]	-0.00131	J	(0.00402)	[1]	0.00	J	(0.00402)	[1]
SW7421 - Lead (mg/L)																

Compiled: 2 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE MW-01 G95-SE-MW-01-01	SE MW-01 G95-SE-MW-01-FD-01 Dup of G95-SE-MW-01-01	SE MW-02 G95-SE-MW-02-01	SE MW-03 G95-SE-MW-03-01
SW7421 - Lead, cont. (mg/L)				
Lead	-0.00115 J (0.000957) [1]	-0.000980 J (0.000957) [1]	-0.00102 J (0.000957) [1]	-0.000190 J (0.000957) [1]

PARAMETER	SE MW-04 G95-SE-MW-04-01			
SW6010 - Metals (mg/L)				
Aluminum	0.00646	J	(0.0523)	[1]
Antimony	-0.0321	J	(0.0760)	[1]
Arsenic	0.0111	J	(0.0468)	[1]
Barium	0.148		(0.000860)	[1]
Beryllium	0.00274		(0.000510)	[1]
Cadmium	0.00424	B	(0.00386)	[1]
Calcium	147		(0.0175)	[1]
Chromium	0.00152	J	(0.00524)	[1]
Cobalt	-0.00531	J	(0.00407)	[1]
Copper	0.00255	J	(0.00916)	[1]
Iron	0.0235	B	(0.00452)	[1]
Lead	-0.0554	J	(0.0216)	[1]
Magnesium	33.1		(0.0479)	[1]
Manganese	0.152		(0.00155)	[1]
Molybdenum	0.00877		(0.00739)	[1]
Nickel	0.0110	J	(0.0141)	[1]
Potassium	2.74		(0.822)	[1]
Selenium	-0.0728	J	(0.0891)	[1]
Silver	-0.00331	J	(0.00519)	[1]
Sodium	5.55		(0.0401)	[1]
Thallium	0.204		(0.0833)	[1]
Vanadium	-0.00257	J	(0.00454)	[1]
Zinc	-0.000780	J	(0.00402)	[1]
SW7421 - Lead (mg/L)				
Lead	-0.00118	J	(0.000957)	[1]

TABLE A-20 RESULTS FOR ORGANIC ANALYSES OF SOIL SAMPLES, GALENA 1995.

PARAMETER	SITE ID: 13 SS-01					SITE ID: 13 SS-02					SITE ID: 13 SS-03					SITE ID: 13 SS-04				
	LOCATION ID: G95-13-SS-01					LOCATION ID: G95-13-SS-02					LOCATION ID: G95-13-SS-03					LOCATION ID: G95-13-SS-04				
	SAMPLE ID: 0 - 0.5					SAMPLE ID: 0 - 0.5					SAMPLE ID: 0 - 0.5					SAMPLE ID: 0 - 0.5				
	BEG. DEPTH - END DEPTH (FT.)					BEG. DEPTH - END DEPTH (FT.)					BEG. DEPTH - END DEPTH (FT.)					BEG. DEPTH - END DEPTH (FT.)				
AK101 - Gasoline Range Organics (mg/kg)																				
Gasoline	0.0560	J	(1.00)	[1]		0.0370	J	(1.00)	[1]		0.118	J	(1.00)	[1]		0.0460	J	(1.00)	[1]	
AK102 - Diesel Range Organics (mg/kg)																				
Diesel	8.40		(4.00)	[1]		220		(4.00)	[1]		5.80		(4.00)	[1]		ND		(4.00)	[1]	
SW8080 - Organochlorine Pesticides and PCBs (ug/kg)																				
4,4'-DDD	11.1		(1.17)	[5]		1.87		(0.230)	[1]		2.75		(0.255)	[1]		2.17	KJ	(2.92)	[1]	
4,4'-DDE	9.38		(2.42)	[5]		1.86		(0.474)	[1]		3.65		(0.525)	[1]		ND		(0.479)	[1]	
4,4'-DDT	149		(3.89)	[5]		53.0		(0.763)	[1]		30.3		(0.844)	[1]		1.59		(0.771)	[1]	
Aldrin	5.27		(1.52)	[5]		0.727	PB	(0.299)	[1]		1.12	B	(0.330)	[1]		0.660	PB	(0.302)	[1]	
Chlordane	ND		(12.5)	[5]		ND		(2.45)	[1]		ND		(2.71)	[1]		ND		(2.48)	[1]	
Dieldrin	3.93		(2.10)	[5]		0.818		(0.412)	[1]		0.886		(0.456)	[1]		ND		(0.256)	[1]	
Endosulfan I	ND		(4.75)	[5]		0.250	J	(0.930)	[1]		0.651	J	(1.03)	[1]		0.206	KJ	(0.940)	[1]	
Endosulfan II	ND		(1.98)	[5]		ND		(0.389)	[1]		0.0627	PJ	(0.430)	[1]		0.0674	PJ	(0.393)	[1]	
Endosulfan Sulfate	2.04	KJ	(3.53)	[5]		ND		(0.556)	[1]		ND		(0.615)	[1]		ND		(0.562)	[1]	
Endrin	3.49	BJ	(3.79)	[5]		0.548	BJ	(0.742)	[1]		0.755	BJ	(0.821)	[1]		0.972	B	(0.750)	[1]	
Endrin Aldehyde	ND		(2.09)	[5]		ND		(0.409)	[1]		0.267	KJ	(0.611)	[1]		ND		(0.413)	[1]	
Heptachlor	1.18	J	(1.23)	[5]		0.198	J	(0.241)	[1]		0.171	PJ	(0.267)	[1]		ND		(0.244)	[1]	
Heptachlor epoxide	ND		(1.30)	[5]		ND		(0.256)	[1]		ND		(0.283)	[1]		ND		(0.258)	[1]	
Methoxychlor	ND		(28.5)	[5]		ND		(5.59)	[1]		ND		(6.19)	[1]		ND		(5.65)	[1]	
PCB-1016	ND		(12.7)	[5]		ND		(2.49)	[1]		ND		(2.76)	[1]		ND		(2.52)	[1]	
PCB-1221	ND		(12.1)	[5]		ND		(2.37)	[1]		ND		(2.62)	[1]		ND		(2.40)	[1]	
PCB-1232	ND		(9.13)	[5]		ND		(1.79)	[1]		ND		(1.98)	[1]		ND		(1.81)	[1]	
PCB-1242	ND		(62.6)	[5]		ND		(12.3)	[1]		ND		(13.6)	[1]		ND		(12.4)	[1]	
PCB-1248	ND		(21.8)	[5]		ND		(4.26)	[1]		ND		(4.72)	[1]		ND		(4.31)	[1]	
PCB-1254	ND		(16.1)	[5]		ND		(3.15)	[1]		ND		(3.48)	[1]		ND		(3.18)	[1]	

Compiled: 5 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	13 SS-01 G95-13-SS-01 0 - 0.5				13 SS-02 G95-13-SS-02 0 - 0.5				13 SS-03 G95-13-SS-03 0 - 0.5				13 SS-04 G95-13-SS-04 0 - 0.5			
SW8080 - Organochlorine Pesticides and PCBs, cont. (ug/kg)																
PCB-1260	ND	(	18.2)	[5]	ND	(	3.57)	[1]	ND	(	3.95)	[1]	ND	(	3.61)	[1]
Toxaphene	ND	(	22.3)	[5]	ND	(	4.37)	[1]	ND	(	4.83)	[1]	ND	(	4.41)	[1]
alpha-BHC	ND	(	2.24)	[5]	ND	(	0.439)	[1]	ND	(	0.485)	[1]	ND	(	0.443)	[1]
beta-BHC	ND	(	1.77)	[5]	ND	(	0.347)	[1]	ND	(	0.383)	[1]	ND	(	0.350)	[1]
delta-BHC	ND	(	1.14)	[5]	ND	(	0.182)	[1]	1.04	(	0.247)	[1]	ND	(	0.184)	[1]
gamma-BHC	ND	(	0.705)	[5]	0.780	(	0.400)	[1]	ND	(	0.442)	[1]	ND	(	0.404)	[1]
SW8240 - Volatile Organics (ug/kg)																
1,1,1-Trichloroethane	ND	(	0.792)	[1]	ND	(	0.781)	[1]	ND	(	0.857)	[1]	ND	(	0.783)	[1]
1,1,2,2-Tetrachloroethane	ND	(	1.13)	[1]	ND	(	1.11)	[1]	ND	(	1.22)	[1]	ND	(	1.11)	[1]
1,1,2-Trichloroethane	ND	(	0.817)	[1]	ND	(	0.805)	[1]	ND	(	0.884)	[1]	ND	(	0.807)	[1]
1,1-Dichloroethane	ND	(	1.08)	[1]	ND	(	1.06)	[1]	ND	(	1.17)	[1]	ND	(	1.06)	[1]
1,1-Dichloroethene	ND	(	0.754)	[1]	ND	(	0.743)	[1]	ND	(	0.816)	[1]	ND	(	0.745)	[1]
1,2-Dichloroethane	ND	(	0.779)	[1]	ND	(	0.767)	[1]	ND	(	0.843)	[1]	ND	(	0.769)	[1]
1,2-Dichloropropane	ND	(	0.608)	[1]	ND	(	0.599)	[1]	ND	(	0.658)	[1]	ND	(	0.600)	[1]
2-Chloroethyl vinyl ether	ND	(	0.872)	[1]	ND	(	0.859)	[1]	ND	(	0.944)	[1]	ND	(	0.861)	[1]
2-Hexanone	ND	(	2.59)	[1]	ND	(	2.55)	[1]	ND	(	2.80)	[1]	ND	(	2.56)	[1]
4-Methyl-2-Pentanone(MIBK)	ND	(	2.30)	[1]	ND	(	2.27)	[1]	ND	(	2.49)	[1]	ND	(	2.27)	[1]
Acetone	ND	(	4.82)	[1]	ND	(	4.75)	[1]	ND	(	5.21)	[1]	ND	(	4.76)	[1]
Benzene	ND	(	0.865)	[1]	ND	(	0.852)	[1]	ND	(	0.936)	[1]	ND	(	0.854)	[1]
Bromodichloromethane	ND	(	0.780)	[1]	ND	(	0.768)	[1]	ND	(	0.844)	[1]	ND	(	0.770)	[1]
Bromomethane	ND	(	1.07)	[1]	ND	(	1.05)	[1]	ND	(	1.15)	[1]	ND	(	1.05)	[1]
Carbon disulfide	ND	(	0.752)	[1]	ND	(	0.741)	[1]	ND	(	0.814)	[1]	ND	(	0.743)	[1]
Carbon tetrachloride	ND	(	0.850)	[1]	ND	(	0.838)	[1]	ND	(	0.920)	[1]	ND	(	0.840)	[1]
Chlorobenzene	ND	(	0.773)	[1]	ND	(	0.761)	[1]	ND	(	0.836)	[1]	ND	(	0.763)	[1]
Chloroethane	ND	(	1.08)	[1]	ND	(	1.06)	[1]	ND	(	1.17)	[1]	ND	(	1.06)	[1]
Chloroform	ND	(	1.05)	[1]	ND	(	1.03)	[1]	ND	(	1.13)	[1]	ND	(	1.03)	[1]
Chloromethane	ND	(	0.942)	[1]	ND	(	0.928)	[1]	ND	(	1.02)	[1]	ND	(	0.930)	[1]
Dibromochloromethane	ND	(	0.799)	[1]	ND	(	0.787)	[1]	ND	(	0.864)	[1]	ND	(	0.789)	[1]
Ethyl benzene	ND	(	0.653)	[1]	ND	(	0.643)	[1]	ND	(	0.706)	[1]	ND	(	0.644)	[1]
Methyl ethyl ketone	ND	(	3.78)	[1]	ND	(	3.72)	[1]	ND	(	4.09)	[1]	ND	(	3.73)	[1]
Methylene chloride	0.522 BJ	(	0.899)	[1]	0.685 BJ	(	0.886)	[1]	1.46 B	(	0.973)	[1]	0.814 BJ	(	0.888)	[1]
Styrene	ND	(	0.871)	[1]	ND	(	0.858)	[1]	ND	(	0.942)	[1]	ND	(	0.860)	[1]
Tetrachloroethene	ND	(	1.03)	[1]	ND	(	1.01)	[1]	ND	(	1.11)	[1]	ND	(	1.01)	[1]
Toluene	ND	(	0.745)	[1]	ND	(	0.734)	[1]	ND	(	0.806)	[1]	ND	(	0.735)	[1]
Tribromomethane(Bromoform)	ND	(	0.626)	[1]	ND	(	0.616)	[1]	ND	(	0.677)	[1]	ND	(	0.618)	[1]

Compiled: 5 Oct[illegible] 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	13 SS-01 G95-13-SS-01 0 - 0.5			13 SS-02 G95-13-SS-02 0 - 0.5			13 SS-03 G95-13-SS-03 0 - 0.5			13 SS-04 G95-13-SS-04 0 - 0.5		
SW8240 - Volatile Organics, cont. (ug/kg)												
Trichloroethene	ND	(0.748)	[1]	ND	(0.737)	[1]	ND	(0.809)	[1]	ND	(0.739)	[1]
Vinyl acetate	ND	(0.866)	[1]	ND	(0.853)	[1]	ND	(0.937)	[1]	ND	(0.855)	[1]
Vinyl chloride	ND	(0.722)	[1]	ND	(0.711)	[1]	ND	(0.781)	[1]	ND	(0.713)	[1]
cis-1,2-Dichloroethene	ND	(0.897)	[1]	ND	(0.884)	[1]	ND	(0.971)	[1]	ND	(0.886)	[1]
cis-1,3-Dichloropropene	ND	(0.640)	[1]	ND	(0.631)	[1]	ND	(0.693)	[1]	ND	(0.632)	[1]
m&p-Xylenes	ND	(1.54)	[1]	ND	(1.52)	[1]	ND	(1.67)	[1]	ND	(1.52)	[1]
o-Xylene	ND	(0.699)	[1]	ND	(0.689)	[1]	ND	(0.756)	[1]	ND	(0.690)	[1]
trans-1,2-Dichloroethene	ND	(1.09)	[1]	ND	(1.07)	[1]	ND	(1.18)	[1]	ND	(1.07)	[1]
trans-1,3-Dichloropropene	ND	(0.603)	[1]	ND	(0.594)	[1]	ND	(0.652)	[1]	ND	(0.595)	[1]
SW8270 - Semivolatile Organics (mg/kg)												
1,2,4-Trichlorobenzene	ND	(0.0146)	[1]	ND	(0.0142)	[1]	ND	(0.0158)	[1]	ND	(0.0143)	[1]
1,2-Dichlorobenzene	ND	(0.0151)	[1]	ND	(0.0147)	[1]	ND	(0.0164)	[1]	ND	(0.0149)	[1]
1,3-Dichlorobenzene	ND	(0.0151)	[1]	ND	(0.0147)	[1]	ND	(0.0163)	[1]	ND	(0.0148)	[1]
1,4-Dichlorobenzene	ND	(0.0214)	[1]	ND	(0.0209)	[1]	ND	(0.0232)	[1]	ND	(0.0211)	[1]
2,4,5-Trichlorophenol	ND	(0.0106)	[1]	ND	(0.0104)	[1]	ND	(0.0115)	[1]	ND	(0.0105)	[1]
2,4,6-Trichlorophenol	ND	(0.0237)	[1]	ND	(0.0231)	[1]	ND	(0.0256)	[1]	ND	(0.0233)	[1]
2,4-Dichlorophenol	ND	(0.00826)	[1]	ND	(0.00805)	[1]	ND	(0.00894)	[1]	ND	(0.00813)	[1]
2,4-Dimethylphenol	ND	(0.0227)	[1]	ND	(0.0221)	[1]	ND	(0.0245)	[1]	ND	(0.0223)	[1]
2,4-Dinitrophenol	ND	(0.0439)	[1]	ND	(0.0428)	[1]	ND	(0.0475)	[1]	ND	(0.0432)	[1]
2,4-Dinitrotoluene	ND	(0.0134)	[1]	ND	(0.0130)	[1]	ND	(0.0145)	[1]	ND	(0.0132)	[1]
2,6-Dinitrotoluene	ND	(0.0289)	[1]	ND	(0.0282)	[1]	ND	(0.0313)	[1]	ND	(0.0285)	[1]
2-Chloronaphthalene	ND	(0.0178)	[1]	ND	(0.0173)	[1]	ND	(0.0192)	[1]	ND	(0.0175)	[1]
2-Chlorophenol	ND	(0.0156)	[1]	ND	(0.0153)	[1]	ND	(0.0169)	[1]	ND	(0.0154)	[1]
2-Methylnaphthalene	ND	(0.0230)	[1]	ND	(0.0224)	[1]	0.0231 J	(0.0249)	[1]	ND	(0.0226)	[1]
2-Methylphenol	ND	(0.0103)	[1]	ND	(0.0101)	[1]	ND	(0.0112)	[1]	ND	(0.0102)	[1]
2-Nitroaniline	ND	(0.00603)	[1]	ND	(0.00588)	[1]	ND	(0.00652)	[1]	ND	(0.00594)	[1]
2-Nitrophenol	ND	(0.0172)	[1]	ND	(0.0167)	[1]	ND	(0.0186)	[1]	ND	(0.0169)	[1]
3,3'-Dichlorobenzidine	ND	(0.0105)	[1]	ND	(0.0102)	[1]	ND	(0.0114)	[1]	ND	(0.0103)	[1]
3-Nitroaniline	ND	(0.0146)	[1]	ND	(0.0142)	[1]	ND	(0.0158)	[1]	ND	(0.0144)	[1]
4,6-Dinitro-2-methylphenol	ND	(0.135)	[1]	ND	(0.131)	[1]	ND	(0.146)	[1]	ND	(0.133)	[1]
4-Bromophenyl phenyl ether	ND	(0.0126)	[1]	ND	(0.0123)	[1]	ND	(0.0137)	[1]	ND	(0.0125)	[1]
4-Chloro-3-methylphenol	ND	(0.00634)	[1]	ND	(0.00618)	[1]	ND	(0.00686)	[1]	ND	(0.00625)	[1]
4-Chlorophenyl phenyl ether	ND	(0.0221)	[1]	ND	(0.0215)	[1]	ND	(0.0239)	[1]	ND	(0.0218)	[1]
4-Methylphenol/3-Methylphenol	ND	(0.0140)	[1]	ND	(0.0136)	[1]	ND	(0.0151)	[1]	ND	(0.0138)	[1]
4-Nitroaniline	ND	(0.0144)	[1]	ND	(0.0140)	[1]	ND	(0.0155)	[1]	ND	(0.0141)	[1]

PARAMETER	13 SS-01 G95-13-SS-01 0 - 0.5				13 SS-02 G95-13-SS-02 0 - 0.5				13 SS-03 G95-13-SS-03 0 - 0.5				13 SS-04 G95-13-SS-04 0 - 0.5			
SW8270 - Semivolatile Organics, cont. (mg/kg)																
4-Nitrophenol	ND		(0.0150)	[1]	ND		(0.0146)	[1]	ND		(0.0162)	[1]	ND		(0.0147)	[1]
Acenaphthene	ND		(0.0151)	[1]	ND		(0.0147)	[1]	ND		(0.0163)	[1]	ND		(0.0149)	[1]
Acenaphthylene	ND		(0.0135)	[1]	ND		(0.0132)	[1]	ND		(0.0146)	[1]	ND		(0.0133)	[1]
Anthracene	0.0211		(0.0182)	[1]	ND		(0.0177)	[1]	ND		(0.0197)	[1]	ND		(0.0179)	[1]
Benzo(a)anthracene	0.0770		(0.0200)	[1]	ND		(0.0195)	[1]	ND		(0.0216)	[1]	ND		(0.0197)	[1]
Benzo(a)pyrene	0.0896		(0.0209)	[1]	ND		(0.0204)	[1]	ND		(0.0227)	[1]	ND		(0.0206)	[1]
Benzo(b)fluoranthene	0.150	F	(0.0188)	[1]	ND		(0.0183)	[1]	ND		(0.0203)	[1]	ND		(0.0185)	[1]
Benzo(g,h,i)perylene	0.0777		(0.0259)	[1]	ND		(0.0253)	[1]	ND		(0.0281)	[1]	ND		(0.0255)	[1]
Benzo(k)fluoranthene	0.150	F	(0.0328)	[1]	ND		(0.0319)	[1]	ND		(0.0355)	[1]	ND		(0.0323)	[1]
Benzoic acid	ND		(0.210)	[1]	ND		(0.205)	[1]	ND		(0.227)	[1]	ND		(0.207)	[1]
Benzyl alcohol	ND		(0.0387)	[1]	ND		(0.0377)	[1]	ND		(0.0419)	[1]	ND		(0.0381)	[1]
Butylbenzylphthalate	ND		(0.0221)	[1]	ND		(0.0215)	[1]	ND		(0.0239)	[1]	ND		(0.0217)	[1]
Chrysene	0.106		(0.0214)	[1]	ND		(0.0209)	[1]	ND		(0.0232)	[1]	ND		(0.0211)	[1]
Di-n-butylphthalate	ND		(0.0204)	[1]	ND		(0.0199)	[1]	ND		(0.0221)	[1]	ND		(0.0201)	[1]
Di-n-octylphthalate	ND		(0.0315)	[1]	ND		(0.0307)	[1]	ND		(0.0341)	[1]	ND		(0.0310)	[1]
Dibenz(a,h)anthracene	ND		(0.0268)	[1]	ND		(0.0262)	[1]	ND		(0.0290)	[1]	ND		(0.0264)	[1]
Dibenzofuran	ND		(0.0216)	[1]	ND		(0.0211)	[1]	ND		(0.0234)	[1]	ND		(0.0213)	[1]
Diethylphthalate	ND		(0.0149)	[1]	ND		(0.0145)	[1]	ND		(0.0161)	[1]	ND		(0.0147)	[1]
Dimethylphthalate	ND		(0.0128)	[1]	ND		(0.0124)	[1]	ND		(0.0138)	[1]	ND		(0.0126)	[1]
Diphenylamine (N-Nitrosodiphenylamine)	ND		(0.0158)	[1]	ND		(0.0154)	[1]	ND		(0.0171)	[1]	ND		(0.0156)	[1]
Fluoranthene	0.201		(0.0210)	[1]	ND		(0.0205)	[1]	ND		(0.0228)	[1]	ND		(0.0207)	[1]
Fluorene	ND		(0.0223)	[1]	ND		(0.0217)	[1]	ND		(0.0241)	[1]	ND		(0.0220)	[1]
Hexachlorobenzene	ND		(0.0152)	[1]	ND		(0.0148)	[1]	ND		(0.0164)	[1]	ND		(0.0150)	[1]
Hexachlorobutadiene	ND		(0.0155)	[1]	ND		(0.0151)	[1]	ND		(0.0167)	[1]	ND		(0.0152)	[1]
Hexachlorocyclopentadiene	ND		(0.190)	[1]	ND		(0.185)	[1]	ND		(0.206)	[1]	ND		(0.187)	[1]
Hexachloroethane	ND		(0.0132)	[1]	ND		(0.0129)	[1]	ND		(0.0143)	[1]	ND		(0.0130)	[1]
Indeno(1,2,3-cd)pyrene	0.0680		(0.0244)	[1]	ND		(0.0238)	[1]	ND		(0.0264)	[1]	ND		(0.0241)	[1]
Isophorone	ND		(0.0129)	[1]	ND		(0.0126)	[1]	ND		(0.0140)	[1]	ND		(0.0127)	[1]
N-Nitroso-di-n-propylamine	ND		(0.00885)	[1]	ND		(0.00863)	[1]	ND		(0.00958)	[1]	ND		(0.00872)	[1]
Naphthalene	ND		(0.0206)	[1]	ND		(0.0201)	[1]	ND		(0.0223)	[1]	ND		(0.0203)	[1]
Nitrobenzene	ND		(0.0108)	[1]	ND		(0.0105)	[1]	ND		(0.0117)	[1]	ND		(0.0106)	[1]
Pentachlorophenol	ND		(0.00603)	[1]	ND		(0.00588)	[1]	ND		(0.00652)	[1]	ND		(0.00594)	[1]
Phenanthrene	0.127		(0.0252)	[1]	ND		(0.0245)	[1]	ND		(0.0272)	[1]	ND		(0.0248)	[1]
Phenol	ND		(0.0140)	[1]	ND		(0.0137)	[1]	ND		(0.0152)	[1]	ND		(0.0138)	[1]
Pyrene	0.184		(0.0258)	[1]	ND		(0.0251)	[1]	ND		(0.0279)	[1]	ND		(0.0254)	[1]
bis(2-Chloroethoxy)methane	ND		(0.0140)	[1]	ND		(0.0137)	[1]	ND		(0.0152)	[1]	ND		(0.0138)	[1]

PARAMETER	13 SS-01 G95-13-SS-01 0 - 0.5	13 SS-02 G95-13-SS-02 0 - 0.5	13 SS-03 G95-13-SS-03 0 - 0.5	13 SS-04 G95-13-SS-04 0 - 0.5
SW8270 - Semivolatile Organics, cont.	(mg/kg)			
bis(2-Chloroethyl)ether	ND (0.0140) [1]	ND (0.0137) [1]	ND (0.0152) [1]	ND (0.0138) [1]
bis(2-Chloroisopropyl)ether	ND (0.0146) [1]	ND (0.0142) [1]	ND (0.0158) [1]	ND (0.0144) [1]
bis(2-Ethylhexyl)phthalate	ND (0.0238) [1]	ND (0.0232) [1]	ND (0.0257) [1]	ND (0.0234) [1]
p-Chloroaniline	ND (0.0146) [1]	ND (0.0142) [1]	ND (0.0158) [1]	ND (0.0143) [1]

PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5					13 SS-06 G95-13-SS-06 0 - 0.5					SE MW-02 G95-SE-MW-02-02 10 - 12					SE MW-03 G95-SE-MW-03-02 10 - 12				
AK101 - Gasoline Range Organics (mg/kg)																				
Gasoline	0.0250	J	(	1.00)	[1]	0.0990	J	(	1.00)	[1]	0.480	J	(	1.00)	[1]	0.150	J	(	1.00)	[1]
AK102 - Diesel Range Organics (mg/kg)																				
Diesel	500		(	4.00)	[1]	22.0		(	4.00)	[1]	0.00	J	(	5.00)	[1]	0.00	J	(	4.00)	[1]
SW8080 - Organochlorine Pesticides and PCBs (ug/kg)																				
4,4'-DDD	29.8	P	(	2.33)	[10]	30.1		(	1.31)	[5]	NA					NA				
4,4'-DDE	8.78		(	4.80)	[10]	5.08		(	2.70)	[5]	NA					NA				
4,4'-DDT	496		(	7.72)	[10]	13.7		(	4.35)	[5]	NA					NA				
Aldrin	ND		(	3.02)	[10]	5.87		(	1.70)	[5]	NA					NA				
Chlordane	ND		(	24.8)	[10]	ND		(	14.0)	[5]	NA					NA				
Dieldrin	11.6		(	4.17)	[10]	7.45		(	2.35)	[5]	NA					NA				
Endosulfan I	2.92	KJ	(	15.0)	[10]	3.36	KJ	(	5.30)	[5]	NA					NA				
Endosulfan II	ND		(	3.93)	[10]	ND		(	2.21)	[5]	NA					NA				
Endosulfan Sulfate	ND		(	5.63)	[10]	ND		(	3.17)	[5]	NA					NA				
Endrin	ND		(	7.52)	[10]	ND		(	4.23)	[5]	NA					NA				
Endrin Aldehyde	1.79	KJ	(	5.59)	[10]	3.26		(	2.33)	[5]	NA					NA				
Heptachlor	ND		(	2.44)	[10]	ND		(	1.38)	[5]	NA					NA				
Heptachlor epoxide	1.93	KJ	(	2.35)	[10]	2.63	P	(	1.46)	[5]	NA					NA				
Methoxychlor	ND		(	56.6)	[10]	ND		(	31.9)	[5]	NA					NA				
PCB-1016	ND		(	25.3)	[10]	ND		(	14.2)	[5]	NA					NA				
PCB-1221	ND		(	24.0)	[10]	ND		(	13.5)	[5]	NA					NA				
PCB-1232	ND		(	18.1)	[10]	ND		(	10.2)	[5]	NA					NA				
PCB-1242	ND		(	124)	[10]	ND		(	69.9)	[5]	NA					NA				
PCB-1248	ND		(	43.2)	[10]	ND		(	24.3)	[5]	NA					NA				
PCB-1254	ND		(	31.9)	[10]	ND		(	17.9)	[5]	NA					NA				
PCB-1260	ND		(	36.1)	[10]	ND		(	20.3)	[5]	NA					NA				
Toxaphene	ND		(	44.2)	[10]	ND		(	24.9)	[5]	NA					NA				
alpha-BHC	7.03		(	4.44)	[10]	ND		(	2.50)	[5]	NA					NA				
beta-BHC	3.61	KJ	(	5.32)	[10]	ND		(	1.98)	[5]	NA					NA				
delta-BHC	ND		(	2.26)	[10]	10.3		(	1.27)	[5]	NA					NA				
gamma-BHC	ND		(	4.05)	[10]	6.01		(	2.28)	[5]	NA					NA				
SW8240 - Volatile Organics (ug/kg)																				
1,1,1-Trichloroethane	ND		(	0.795)	[1]	ND		(	0.887)	[1]	ND		(	0.981)	[1]	ND		(	0.788)	[1]
1,1,2,2-Tetrachloroethane	ND	X	(	1.13)	[1]	ND		(	1.26)	[1]	ND		(	1.40)	[1]	ND		(	1.12)	[1]

Compiled: 5 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5					13 SS-06 G95-13-SS-06 0 - 0.5					SE MW-02 G95-SE-MW-02-02 10 - 12					SE MW-03 G95-SE-MW-03-02 10 - 12				
SW8240 - Volatile Organics, cont.	(ug/kg)																			
1,1,2-Trichloroethane	ND	X	(0.820)	[1]		ND		(0.915)	[1]		ND		(1.01)	[1]		ND		(0.813)	[1]	
1,1-Dichloroethane	ND		(1.08)	[1]		ND		(1.21)	[1]		ND		(1.33)	[1]		ND		(1.07)	[1]	
1,1-Dichloroethene	ND		(0.757)	[1]		ND		(0.844)	[1]		ND		(0.933)	[1]		ND		(0.750)	[1]	
1,2-Dichloroethane	ND		(0.782)	[1]		ND		(0.872)	[1]		ND		(0.964)	[1]		ND		(0.775)	[1]	
1,2-Dichloropropane	ND		(0.610)	[1]		ND		(0.681)	[1]		ND		(0.752)	[1]		ND		(0.605)	[1]	
2-Chloroethyl vinyl ether	ND		(0.875)	[1]		ND		(0.976)	[1]		ND		(1.08)	[1]		ND		(0.868)	[1]	
2-Hexanone	ND	X	(2.60)	[1]		ND		(2.90)	[1]		ND		(3.20)	[1]		ND		(2.58)	[1]	
4-Methyl-2-Pentanone(MIBK)	ND		(2.31)	[1]		ND		(2.57)	[1]		ND		(2.85)	[1]		ND		(2.29)	[1]	
Acetone	ND		(4.83)	[1]		ND		(5.39)	[1]		ND		(5.96)	[1]		ND		(4.79)	[1]	
Benzene	ND		(0.868)	[1]		ND		(0.968)	[1]		ND		(1.07)	[1]		ND		(0.861)	[1]	
Bromodichloromethane	ND		(0.783)	[1]		ND		(0.873)	[1]		ND		(0.965)	[1]		ND		(0.776)	[1]	
Bromomethane	ND		(1.07)	[1]		ND		(1.19)	[1]		ND		(1.32)	[1]		ND		(1.06)	[1]	
Carbon disulfide	ND		(0.755)	[1]		ND		(0.842)	[1]		ND		(0.931)	[1]		ND		(0.748)	[1]	
Carbon tetrachloride	ND		(0.853)	[1]		ND		(0.952)	[1]		ND		(1.05)	[1]		ND		(0.846)	[1]	
Chlorobenzene	ND	X	(0.775)	[1]		ND		(0.865)	[1]		ND		(0.956)	[1]		ND		(0.769)	[1]	
Chloroethane	ND		(1.08)	[1]		ND		(1.21)	[1]		ND		(1.33)	[1]		ND		(1.07)	[1]	
Chloroform	ND		(1.05)	[1]		ND		(1.17)	[1]		ND		(1.29)	[1]		ND		(1.04)	[1]	
Chloromethane	ND		(0.945)	[1]		ND		(1.05)	[1]		ND		(1.17)	[1]		ND		(0.937)	[1]	
Dibromochloromethane	ND	X	(0.801)	[1]		ND		(0.894)	[1]		ND		(0.988)	[1]		ND		(0.795)	[1]	
Ethyl benzene	ND	X	(0.655)	[1]		ND		(0.730)	[1]		ND		(0.808)	[1]		ND		(0.649)	[1]	
Methyl ethyl ketone	ND		(3.79)	[1]		ND		(4.23)	[1]		ND		(4.68)	[1]		ND		(3.76)	[1]	
Methylene chloride	0.975	B	(0.902)	[1]		0.607	BJ	(1.01)	[1]		1.11	BJ	(1.11)	[1]		0.771	BJ	(0.895)	[1]	
Styrene	ND	X	(0.874)	[1]		ND		(0.975)	[1]		ND		(1.08)	[1]		ND		(0.867)	[1]	
Tetrachloroethene	ND	X	(1.03)	[1]		ND		(1.15)	[1]		ND		(1.27)	[1]		ND		(1.02)	[1]	
Toluene	ND		(0.747)	[1]		ND		(0.834)	[1]		ND		(0.922)	[1]		ND		(0.741)	[1]	
Tribromomethane(Bromoform)	ND	X	(0.628)	[1]		ND		(0.700)	[1]		ND		(0.774)	[1]		ND		(0.622)	[1]	
Trichloroethene	ND		(0.750)	[1]		ND		(0.837)	[1]		ND		(0.926)	[1]		ND		(0.744)	[1]	
Vinyl acetate	ND		(0.869)	[1]		ND		(0.969)	[1]		ND		(1.07)	[1]		ND		(0.862)	[1]	
Vinyl chloride	ND		(0.724)	[1]		ND		(0.808)	[1]		ND		(0.893)	[1]		ND		(0.718)	[1]	
cis-1,2-Dichloroethene	ND		(0.900)	[1]		ND		(1.00)	[1]		ND		(1.11)	[1]		ND		(0.893)	[1]	
cis-1,3-Dichloropropene	ND		(0.642)	[1]		ND		(0.716)	[1]		ND		(0.792)	[1]		ND		(0.637)	[1]	
m&p-Xylenes	ND	X	(1.55)	[1]		ND		(1.73)	[1]		ND		(1.91)	[1]		ND		(1.54)	[1]	
o-Xylene	ND	X	(0.702)	[1]		ND		(0.783)	[1]		ND		(0.865)	[1]		ND		(0.696)	[1]	
trans-1,2-Dichloroethene	ND		(1.09)	[1]		ND		(1.22)	[1]		ND		(1.35)	[1]		ND		(1.08)	[1]	
trans-1,3-Dichloropropene	ND		(0.605)	[1]		ND		(0.675)	[1]		ND		(0.746)	[1]		ND		(0.600)	[1]	

PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5				13 SS-06 G95-13-SS-06 0 - 0.5				SE MW-02 G95-SE-MW-02-02 10 - 12				SE MW-03 G95-SE-MW-03-02 10 - 12			
SW8270 - Semivolatile Organics (mg/kg)																
1,2,4-Trichlorobenzene	ND		(0.0145)	[1]	ND		(0.0163)	[1]	ND		(0.0196)	[1]	ND		(0.0158)	[1]
1,2-Dichlorobenzene	ND		(0.0150)	[1]	ND		(0.0169)	[1]	ND		(0.0113)	[1]	ND		(0.00912)	[1]
1,3-Dichlorobenzene	ND		(0.0150)	[1]	ND		(0.0168)	[1]	ND		(0.0127)	[1]	ND		(0.0102)	[1]
1,4-Dichlorobenzene	ND		(0.0213)	[1]	ND		(0.0239)	[1]	ND		(0.0151)	[1]	ND		(0.0122)	[1]
2,4,5-Trichlorophenol	ND		(0.0106)	[1]	ND		(0.0119)	[1]	ND		(0.0195)	[1]	ND		(0.0157)	[1]
2,4,6-Trichlorophenol	ND		(0.0235)	[1]	ND		(0.0264)	[1]	ND		(0.0138)	[1]	ND		(0.0112)	[1]
2,4-Dichlorophenol	ND		(0.00820)	[1]	ND		(0.00922)	[1]	ND		(0.0156)	[1]	ND		(0.0125)	[1]
2,4-Dimethylphenol	ND		(0.0225)	[1]	ND		(0.0253)	[1]	ND		(0.0344)	[1]	ND		(0.0277)	[1]
2,4-Dinitrophenol	ND		(0.0436)	[1]	ND		(0.0490)	[1]	ND		(0.0583)	[1]	ND		(0.0470)	[1]
2,4-Dinitrotoluene	ND		(0.0133)	[1]	ND		(0.0149)	[1]	ND		(0.0255)	[1]	ND		(0.0206)	[1]
2,6-Dinitrotoluene	ND		(0.0287)	[1]	ND		(0.0323)	[1]	ND		(0.0204)	[1]	ND		(0.0164)	[1]
2-Chloronaphthalene	ND		(0.0176)	[1]	ND		(0.0199)	[1]	ND		(0.0353)	[1]	ND		(0.0284)	[1]
2-Chlorophenol	ND		(0.0155)	[1]	ND		(0.0175)	[1]	ND		(0.0131)	[1]	ND		(0.0105)	[1]
2-Methylnaphthalene	0.0217	J	(0.0228)	[1]	ND		(0.0257)	[1]	ND		(0.0248)	[1]	ND		(0.0200)	[1]
2-Methylphenol	ND		(0.0102)	[1]	ND		(0.0115)	[1]	ND		(0.00977)	[1]	ND		(0.00787)	[1]
2-Nitroaniline	ND		(0.00599)	[1]	ND		(0.00673)	[1]	ND		(0.0232)	[1]	ND		(0.0187)	[1]
2-Nitrophenol	ND		(0.0171)	[1]	ND		(0.0192)	[1]	ND		(0.0329)	[1]	ND		(0.0265)	[1]
3,3'-Dichlorobenzidine	ND		(0.0104)	[1]	ND		(0.0117)	[1]	ND		(0.0280)	[1]	ND		(0.0226)	[1]
3-Nitroaniline	ND		(0.0145)	[1]	ND		(0.0163)	[1]	ND		(0.0116)	[1]	ND		(0.00936)	[1]
4,6-Dinitro-2-methylphenol	ND		(0.134)	[1]	ND		(0.151)	[1]	ND		(0.0155)	[1]	ND		(0.0125)	[1]
4-Bromophenyl phenyl ether	ND		(0.0126)	[1]	ND		(0.0141)	[1]	ND		(0.0180)	[1]	ND		(0.0145)	[1]
4-Chloro-3-methylphenol	ND		(0.00630)	[1]	ND		(0.00708)	[1]	ND		(0.0278)	[1]	ND		(0.0224)	[1]
4-Chlorophenyl phenyl ether	ND		(0.0219)	[1]	ND		(0.0247)	[1]	ND		(0.00874)	[1]	ND		(0.00704)	[1]
4-Methylphenol/3-Methylphenol	ND		(0.0139)	[1]	ND		(0.0156)	[1]	ND		(0.0208)	[1]	ND		(0.0168)	[1]
4-Nitroaniline	ND		(0.0143)	[1]	ND		(0.0160)	[1]	ND		(0.0256)	[1]	ND		(0.0207)	[1]
4-Nitrophenol	ND		(0.0148)	[1]	ND		(0.0167)	[1]	ND		(0.0501)	[1]	ND		(0.0404)	[1]
Acenaphthene	ND		(0.0150)	[1]	ND		(0.0169)	[1]	ND		(0.0281)	[1]	ND		(0.0227)	[1]
Acenaphthylene	ND		(0.0134)	[1]	ND		(0.0151)	[1]	ND		(0.0200)	[1]	ND		(0.0161)	[1]
Anthracene	ND		(0.0181)	[1]	ND		(0.0203)	[1]	ND		(0.0270)	[1]	ND		(0.0218)	[1]
Benzo(a)anthracene	ND		(0.0198)	[1]	ND		(0.0223)	[1]	ND		(0.0264)	[1]	ND		(0.0213)	[1]
Benzo(a)pyrene	ND	X	(0.0208)	[1]	ND		(0.0234)	[1]	ND		(0.0217)	[1]	ND		(0.0175)	[1]
Benzo(b)fluoranthene	ND	X	(0.0187)	[1]	ND		(0.0210)	[1]	ND		(0.0476)	[1]	ND		(0.0383)	[1]
Benzo(g,h,i)perylene	ND	X	(0.0257)	[1]	ND		(0.0290)	[1]	ND		(0.0271)	[1]	ND		(0.0218)	[1]
Benzo(k)fluoranthene	ND	X	(0.0325)	[1]	ND		(0.0366)	[1]	ND		(0.0767)	[1]	ND		(0.0618)	[1]
Benzoic acid	ND		(0.209)	[1]	ND		(0.235)	[1]	ND		(0.277)	[1]	ND		(0.223)	[1]
Benzyl alcohol	ND		(0.0384)	[1]	ND		(0.0432)	[1]	ND		(0.0266)	[1]	ND		(0.0214)	[1]

PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5				13 SS-06 G95-13-SS-06 0 - 0.5				SE MW-02 G95-SE-MW-02-02 10 - 12				SE MW-03 G95-SE-MW-03-02 10 - 12			
SW8270 - Semivolatile Organics, cont.	(mg/kg)															
Butylbenzylphthalate	ND		(0.0219)	[1]	ND	(0.0246)	[1]		ND	(0.00977)	[1]		ND	(0.00787)	[1]	
Chrysene	ND		(0.0213)	[1]	ND	(0.0239)	[1]		ND	(0.0352)	[1]		ND	(0.0284)	[1]	
Di-n-butylphthalate	ND		(0.0202)	[1]	ND	(0.0228)	[1]		ND	(0.0150)	[1]		ND	(0.0121)	[1]	
Di-n-octylphthalate	ND	X	(0.0312)	[1]	ND	(0.0352)	[1]		ND	(0.0147)	[1]		ND	(0.0118)	[1]	
Dibenz(a,h)anthracene	ND	X	(0.0266)	[1]	ND	(0.0300)	[1]		ND	(0.0320)	[1]		ND	(0.0258)	[1]	
Dibenzofuran	ND		(0.0215)	[1]	ND	(0.0241)	[1]		ND	(0.0209)	[1]		ND	(0.0169)	[1]	
Diethylphthalate	ND		(0.0148)	[1]	ND	(0.0166)	[1]		ND	(0.0194)	[1]		ND	(0.0156)	[1]	
Dimethylphthalate	ND		(0.0127)	[1]	ND	(0.0142)	[1]		ND	(0.0144)	[1]		ND	(0.0116)	[1]	
Diphenylamine (N-Nitrosodiphenylamine)	ND		(0.0157)	[1]	ND	(0.0177)	[1]		ND	(0.0342)	[1]		ND	(0.0276)	[1]	
Fluoranthene	ND		(0.0209)	[1]	ND	(0.0235)	[1]		ND	(0.0282)	[1]		ND	(0.0227)	[1]	
Fluorene	ND		(0.0221)	[1]	ND	(0.0249)	[1]		ND	(0.0250)	[1]		ND	(0.0201)	[1]	
Hexachlorobenzene	ND		(0.0151)	[1]	ND	(0.0170)	[1]		ND	(0.0332)	[1]		ND	(0.0268)	[1]	
Hexachlorobutadiene	ND		(0.0154)	[1]	ND	(0.0173)	[1]		ND	(0.0255)	[1]		ND	(0.0205)	[1]	
Hexachlorocyclopentadiene	ND		(0.189)	[1]	ND	(0.212)	[1]		ND	(0.136)	[1]		ND	(0.110)	[1]	
Hexachloroethane	ND		(0.0131)	[1]	ND	(0.0148)	[1]		ND	(0.0357)	[1]		ND	(0.0288)	[1]	
Indeno(1,2,3-cd)pyrene	ND	X	(0.0243)	[1]	ND	(0.0273)	[1]		ND	(0.0369)	[1]		ND	(0.0298)	[1]	
Isophorone	ND		(0.0128)	[1]	ND	(0.0144)	[1]		ND	(0.0158)	[1]		ND	(0.0127)	[1]	
N-Nitroso-di-n-propylamine	ND		(0.00879)	[1]	ND	(0.00989)	[1]		ND	(0.0247)	[1]		ND	(0.0199)	[1]	
Naphthalene	ND		(0.0205)	[1]	ND	(0.0230)	[1]		ND	(0.0227)	[1]		ND	(0.0183)	[1]	
Nitrobenzene	ND		(0.0107)	[1]	ND	(0.0121)	[1]		ND	(0.0160)	[1]		ND	(0.0129)	[1]	
Pentachlorophenol	ND		(0.00599)	[1]	ND	(0.00673)	[1]		ND	(0.0148)	[1]		ND	(0.0119)	[1]	
Phenanthrene	ND		(0.0250)	[1]	ND	(0.0281)	[1]		ND	(0.0188)	[1]		ND	(0.0151)	[1]	
Phenol	ND		(0.0139)	[1]	ND	(0.0156)	[1]		ND	(0.0328)	[1]		ND	(0.0265)	[1]	
Pyrene	ND		(0.0256)	[1]	ND	(0.0288)	[1]		ND	(0.0258)	[1]		ND	(0.0208)	[1]	
bis(2-Chloroethoxy)methane	ND		(0.0139)	[1]	ND	(0.0156)	[1]		ND	(0.0113)	[1]		ND	(0.00912)	[1]	
bis(2-Chloroethyl)ether	ND		(0.0139)	[1]	ND	(0.0156)	[1]		ND	(0.0176)	[1]		ND	(0.0142)	[1]	
bis(2-Chloroisopropyl)ether	ND		(0.0145)	[1]	ND	(0.0163)	[1]		ND	(0.0169)	[1]		ND	(0.0136)	[1]	
bis(2-Ethylhexyl)phthalate	0.0938		(0.0236)	[1]	ND	(0.0265)	[1]		ND	(0.0159)	[1]		0.0470	(0.0128)	[1]	
p-Chloroaniline	ND		(0.0145)	[1]	ND	(0.0163)	[1]		ND	(0.0313)	[1]		ND	(0.0252)	[1]	

PARAMETER	SE MW-04 G95-SE-MW-04-02 10 - 12					SE SB-01 G95-SE-SB-01-01 0 - 0.5					SE SB-01 G95-SE-SB-01-02 6 - 7.5					SE SB-02 G95-SE-SB-02-01 0 - 0.5				
AK101 - Gasoline Range Organics (mg/kg)																				
Gasoline	0.120	J	(	1.00)	[1]	0.0220	J	(	1.00)	[1]	540		(	50.0)	[50]	0.0550	J	(	1.00)	[1]
AK102 - Diesel Range Organics (mg/kg)																				
Diesel	0.250	J	(	4.00)	[1]	250		(	4.00)	[1]	18000		(	4.00)	[1]	120		(	4.00)	[1]
SW8240 - Volatile Organics (ug/kg)																				
1,1,1-Trichloroethane	ND		(	0.819)	[1]	ND		(	0.833)	[1]	ND		(	4.52)	[1]	ND		(	0.910)	[1]
1,1,2,2-Tetrachloroethane	ND		(	1.17)	[1]	ND		(	1.19)	[1]	ND		(	6.44)	[1]	ND	X	(	1.30)	[1]
1,1,2-Trichloroethane	ND		(	0.845)	[1]	ND		(	0.860)	[1]	ND		(	4.66)	[1]	ND	X	(	0.938)	[1]
1,1-Dichloroethane	ND		(	1.11)	[1]	ND		(	1.13)	[1]	ND		(	6.14)	[1]	ND		(	1.24)	[1]
1,1-Dichloroethene	ND		(	0.780)	[1]	ND		(	0.793)	[1]	ND		(	4.30)	[1]	ND		(	0.866)	[1]
1,2-Dichloroethane	ND		(	0.805)	[1]	ND		(	0.819)	[1]	ND		(	4.44)	[1]	ND		(	0.894)	[1]
1,2-Dichloropropane	ND		(	0.629)	[1]	ND		(	0.640)	[1]	ND		(	3.47)	[1]	ND		(	0.698)	[1]
2-Chloroethyl vinyl ether	ND		(	0.902)	[1]	ND		(	0.917)	[1]	ND		(	4.97)	[1]	ND		(	1.00)	[1]
2-Hexanone	ND		(	2.68)	[1]	ND		(	2.72)	[1]	ND		(	14.8)	[1]	ND	X	(	2.97)	[1]
4-Methyl-2-Pentanone(MIBK)	ND		(	2.38)	[1]	ND		(	2.42)	[1]	ND		(	13.1)	[1]	ND		(	2.64)	[1]
Acetone	3.15	J	(	4.98)	[1]	ND		(	5.07)	[1]	175		(	27.5)	[1]	ND		(	5.53)	[1]
Benzene	ND		(	0.894)	[1]	ND		(	0.910)	[1]	336		(	4.93)	[1]	ND		(	0.993)	[1]
Bromodichloromethane	ND		(	0.806)	[1]	ND		(	0.820)	[1]	ND		(	4.45)	[1]	ND		(	0.895)	[1]
Bromomethane	ND		(	1.10)	[1]	ND		(	1.12)	[1]	ND		(	6.08)	[1]	ND		(	1.22)	[1]
Carbon disulfide	ND		(	0.778)	[1]	ND		(	0.791)	[1]	ND		(	4.29)	[1]	ND		(	0.863)	[1]
Carbon tetrachloride	ND		(	0.879)	[1]	ND		(	0.894)	[1]	ND		(	4.85)	[1]	ND		(	0.976)	[1]
Chlorobenzene	ND		(	0.799)	[1]	ND		(	0.813)	[1]	ND		(	4.41)	[1]	ND	X	(	0.887)	[1]
Chloroethane	ND		(	1.11)	[1]	ND		(	1.13)	[1]	ND		(	6.14)	[1]	ND		(	1.24)	[1]
Chloroform	ND		(	1.08)	[1]	ND		(	1.10)	[1]	ND		(	5.97)	[1]	ND		(	1.20)	[1]
Chloromethane	ND		(	0.974)	[1]	ND		(	0.990)	[1]	ND		(	5.37)	[1]	ND		(	1.08)	[1]
Dibromochloromethane	ND		(	0.826)	[1]	ND		(	0.840)	[1]	ND		(	4.55)	[1]	ND	X	(	0.917)	[1]
Ethyl benzene	ND		(	0.675)	[1]	ND		(	0.686)	[1]	6810		(	82.1)	[100]	ND	X	(	0.749)	[1]
Methyl ethyl ketone	ND		(	3.91)	[1]	ND		(	3.98)	[1]	60.9	F	(	21.6)	[1]	ND		(	4.34)	[1]
Methylene chloride	0.609	BJ	(	0.930)	[1]	0.498	BJ	(	0.946)	[1]	1.83	BJ	(	5.13)	[1]	0.484	BJ	(	1.03)	[1]
Styrene	ND		(	0.901)	[1]	ND		(	0.916)	[1]	ND		(	4.97)	[1]	ND	X	(	1.00)	[1]
Tetrachloroethene	ND		(	1.06)	[1]	ND		(	1.08)	[1]	ND		(	5.85)	[1]	ND	X	(	1.18)	[1]
Toluene	ND		(	0.770)	[1]	ND		(	0.783)	[1]	4540		(	62.8)	[100]	ND		(	0.855)	[1]
Tribromomethane(Bromoform)	ND		(	0.647)	[1]	ND		(	0.658)	[1]	ND		(	3.57)	[1]	ND	X	(	0.718)	[1]
Trichloroethene	ND		(	0.773)	[1]	ND		(	0.787)	[1]	ND		(	4.27)	[1]	ND		(	0.858)	[1]
Vinyl acetate	ND		(	0.895)	[1]	ND		(	0.911)	[1]	ND		(	4.94)	[1]	ND		(	0.994)	[1]

Compiled: 5 Oct[illegible] 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE MW-04 G95-SE-MW-04-02 10 - 12				SE SB-01 G95-SE-SB-01-01 0 - 0.5				SE SB-01 G95-SE-SB-01-02 6 - 7.5				SE SB-02 G95-SE-SB-02-01 0 - 0.5			
SW8240 - Volatile Organics, cont. (ug/kg)																
Vinyl chloride	ND		(0.747)	[1]	ND		(0.759)	[1]	ND		(4.12)	[1]	ND		(0.829)	[1]
cis-1,2-Dichloroethene	ND		(0.928)	[1]	ND		(0.943)	[1]	ND		(5.12)	[1]	ND		(1.03)	[1]
cis-1,3-Dichloropropene	ND		(0.662)	[1]	ND		(0.673)	[1]	ND		(3.65)	[1]	ND		(0.735)	[1]
m&p-Xylenes	ND		(1.60)	[1]	ND		(1.62)	[1]	29800		(138)	[100]	ND	X	(1.77)	[1]
o-Xylene	ND		(0.723)	[1]	ND		(0.735)	[1]	13200		(72.5)	[100]	ND	X	(0.803)	[1]
trans-1,2-Dichloroethene	ND		(1.12)	[1]	ND		(1.14)	[1]	ND		(6.20)	[1]	ND		(1.25)	[1]
trans-1,3-Dichloropropene	ND		(0.623)	[1]	ND		(0.634)	[1]	ND		(3.44)	[1]	ND		(0.692)	[1]
SW8270 - Semivolatile Organics (mg/kg)																
1,2,4-Trichlorobenzene	ND		(0.0164)	[1]	ND		(0.0152)	[1]	ND		(9.97)	[20]	ND		(0.167)	[10]
1,2-Dichlorobenzene	ND		(0.00948)	[1]	ND		(0.0157)	[1]	ND		(10.4)	[20]	ND		(0.173)	[10]
1,3-Dichlorobenzene	ND		(0.0106)	[1]	ND		(0.0157)	[1]	ND		(10.3)	[20]	ND		(0.172)	[10]
1,4-Dichlorobenzene	ND		(0.0126)	[1]	ND		(0.0223)	[1]	ND		(14.7)	[20]	ND		(0.245)	[10]
2,4,5-Trichlorophenol	ND		(0.0163)	[1]	ND		(0.0111)	[1]	ND		(7.28)	[20]	ND		(0.122)	[10]
2,4,6-Trichlorophenol	ND	X	(0.0116)	[1]	ND		(0.0246)	[1]	ND		(16.2)	[20]	ND		(0.271)	[10]
2,4-Dichlorophenol	ND		(0.0130)	[1]	ND		(0.00860)	[1]	ND		(5.65)	[20]	ND		(0.0945)	[10]
2,4-Dimethylphenol	ND		(0.0288)	[1]	ND		(0.0236)	[1]	ND		(15.5)	[20]	ND		(0.259)	[10]
2,4-Dinitrophenol	ND		(0.0488)	[1]	ND		(0.0457)	[1]	ND		(30.1)	[20]	ND		(0.502)	[10]
2,4-Dinitrotoluene	ND		(0.0214)	[1]	ND		(0.0139)	[1]	ND		(9.16)	[20]	ND		(0.153)	[10]
2,6-Dinitrotoluene	ND		(0.0171)	[1]	ND		(0.0301)	[1]	ND		(19.8)	[20]	ND		(0.330)	[10]
2-Chloronaphthalene	ND		(0.0295)	[1]	ND		(0.0185)	[1]	ND		(12.2)	[20]	ND		(0.203)	[10]
2-Chlorophenol	ND		(0.0110)	[1]	ND		(0.0163)	[1]	ND		(10.7)	[20]	ND		(0.179)	[10]
2-Methylnaphthalene	ND		(0.0208)	[1]	ND		(0.0239)	[1]	235		(15.7)	[20]	ND		(0.263)	[10]
2-Methylphenol	ND		(0.00818)	[1]	ND		(0.0107)	[1]	ND		(7.06)	[20]	ND		(0.118)	[10]
2-Nitroaniline	ND		(0.0194)	[1]	ND		(0.00628)	[1]	ND		(4.13)	[20]	ND		(0.0690)	[10]
2-Nitrophenol	ND		(0.0275)	[1]	ND		(0.0179)	[1]	ND		(11.8)	[20]	ND		(0.197)	[10]
3,3'-Dichlorobenzidine	ND		(0.0235)	[1]	ND		(0.0109)	[1]	ND		(7.18)	[20]	ND		(0.120)	[10]
3-Nitroaniline	ND		(0.00973)	[1]	ND		(0.0152)	[1]	ND		(9.99)	[20]	ND		(0.167)	[10]
4,6-Dinitro-2-methylphenol	ND		(0.0130)	[1]	ND		(0.140)	[1]	ND		(92.3)	[20]	ND		(1.54)	[10]
4-Bromophenyl phenyl ether	ND		(0.0150)	[1]	ND		(0.0132)	[1]	ND		(8.66)	[20]	ND		(0.145)	[10]
4-Chloro-3-methylphenol	ND		(0.0233)	[1]	ND		(0.00660)	[1]	ND		(4.34)	[20]	ND		(0.0725)	[10]
4-Chlorophenyl phenyl ether	ND		(0.00732)	[1]	ND		(0.0230)	[1]	ND		(15.1)	[20]	ND		(0.253)	[10]
4-Methylphenol/3-Methylphenol	ND		(0.0174)	[1]	ND		(0.0145)	[1]	ND		(9.57)	[20]	ND		(0.160)	[10]
4-Nitroaniline	ND		(0.0215)	[1]	ND		(0.0149)	[1]	ND		(9.83)	[20]	ND		(0.164)	[10]
4-Nitrophenol	ND		(0.0420)	[1]	ND		(0.0156)	[1]	ND		(10.2)	[20]	ND		(0.171)	[10]
Acenaphthene	ND		(0.0236)	[1]	ND		(0.0157)	[1]	ND		(10.3)	[20]	ND		(0.173)	[10]

Compiled: 5 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE MW-04 G95-SE-MW-04-02 10 - 12			SE SB-01 G95-SE-SB-01-01 0 - 0.5			SE SB-01 G95-SE-SB-01-02 6 - 7.5			SE SB-02 G95-SE-SB-02-01 0 - 0.5		
SW8270 - Semivolatile Organics, cont.	(mg/kg)											
Acenaphthylene	ND	(0.0167)	[1]	ND	(0.0141)	[1]	ND	(9.26)	[20]	ND	(0.155)	[10]
Anthracene	ND	(0.0227)	[1]	0.0533	(0.0189)	[1]	ND	(12.5)	[20]	ND	(0.208)	[10]
Benzo(a)anthracene	ND	(0.0222)	[1]	0.354	(0.0208)	[1]	ND	(13.7)	[20]	ND	(0.228)	[10]
Benzo(a)pyrene	ND	(0.0182)	[1]	0.554	(0.0218)	[1]	ND	(14.3)	[20]	ND	(0.240)	[10]
Benzo(b)fluoranthene	ND	(0.0399)	[1]	0.447	(0.0196)	[1]	ND	(12.9)	[20]	ND	(0.215)	[10]
Benzo(g,h,i)perylene	ND	(0.0227)	[1]	0.212	(0.0270)	[1]	ND	(17.7)	[20]	ND	(0.297)	[10]
Benzo(k)fluoranthene	ND	(0.0643)	[1]	0.461	(0.0341)	[1]	ND	(22.4)	[20]	ND	(0.375)	[10]
Benzoic acid	ND	(0.232)	[1]	ND	(0.219)	[1]	ND	(144)	[20]	ND	(2.40)	[10]
Benzyl alcohol	ND	(0.0223)	[1]	ND	(0.0403)	[1]	ND	(26.5)	[20]	ND	(0.442)	[10]
Butylbenzylphthalate	ND	(0.00818)	[1]	ND	(0.0230)	[1]	ND	(15.1)	[20]	ND	(0.252)	[10]
Chrysene	ND	(0.0295)	[1]	0.515	(0.0223)	[1]	ND	(14.7)	[20]	ND	(0.245)	[10]
Di-n-butylphthalate	ND	(0.0125)	[1]	ND	(0.0212)	[1]	ND	(14.0)	[20]	ND	(0.233)	[10]
Di-n-octylphthalate	ND	(0.0123)	[1]	ND	(0.0328)	[1]	ND	(21.5)	[20]	ND	(0.360)	[10]
Dibenz(a,h)anthracene	ND	(0.0268)	[1]	0.0947	(0.0279)	[1]	ND	(18.4)	[20]	ND	(0.307)	[10]
Dibenzofuran	ND	(0.0176)	[1]	ND	(0.0225)	[1]	ND	(14.8)	[20]	ND	(0.247)	[10]
Diethylphthalate	ND	(0.0163)	[1]	ND	(0.0155)	[1]	ND	(10.2)	[20]	ND	(0.170)	[10]
Dimethylphthalate	ND	(0.0121)	[1]	ND	(0.0133)	[1]	ND	(8.73)	[20]	ND	(0.146)	[10]
Diphenylamine (N-Nitrosodiphenylamine)	ND	(0.0287)	[1]	ND	(0.0165)	[1]	ND	(10.8)	[20]	ND	(0.181)	[10]
Fluoranthene	ND	(0.0236)	[1]	0.435	(0.0219)	[1]	ND	(14.4)	[20]	ND	(0.241)	[10]
Fluorene	ND	(0.0209)	[1]	ND	(0.0232)	[1]	ND	(15.3)	[20]	ND	(0.255)	[10]
Hexachlorobenzene	ND	(0.0279)	[1]	ND	(0.0158)	[1]	ND	(10.4)	[20]	ND	(0.174)	[10]
Hexachlorobutadiene	ND	(0.0214)	[1]	ND	(0.0161)	[1]	ND	(10.6)	[20]	ND	(0.177)	[10]
Hexachlorocyclopentadiene	ND	(0.114)	[1]	ND	(0.198)	[1]	ND	(130)	[20]	ND	(2.17)	[10]
Hexachloroethane	ND	(0.0299)	[1]	ND	(0.0137)	[1]	ND	(9.04)	[20]	ND	(0.151)	[10]
Indeno(1,2,3-cd)pyrene	ND	(0.0309)	[1]	0.240	(0.0254)	[1]	ND	(16.7)	[20]	ND	(0.279)	[10]
Isophorone	ND	(0.0132)	[1]	ND	(0.0134)	[1]	ND	(8.83)	[20]	ND	(0.147)	[10]
N-Nitroso-di-n-propylamine	ND	(0.0207)	[1]	ND	(0.00921)	[1]	ND	(6.06)	[20]	ND	(0.101)	[10]
Naphthalene	ND	(0.0191)	[1]	ND	(0.0215)	[1]	109	(14.1)	[20]	ND	(0.236)	[10]
Nitrobenzene	ND	(0.0134)	[1]	ND	(0.0112)	[1]	ND	(7.39)	[20]	ND	(0.124)	[10]
Pentachlorophenol	ND	(0.0124)	[1]	ND	(0.00628)	[1]	ND	(4.13)	[20]	ND	(0.0690)	[10]
Phenanthrene	ND	(0.0157)	[1]	0.149	(0.0262)	[1]	ND	(17.2)	[20]	ND	(0.288)	[10]
Phenol	ND	(0.0275)	[1]	ND	(0.0146)	[1]	ND	(9.59)	[20]	ND	(0.160)	[10]
Pyrene	ND	(0.0216)	[1]	0.517	(0.0268)	[1]	ND	(17.6)	[20]	ND	(0.295)	[10]
bis(2-Chloroethoxy)methane	ND	(0.00948)	[1]	ND	(0.0146)	[1]	ND	(9.59)	[20]	ND	(0.160)	[10]
bis(2-Chloroethyl)ether	ND	(0.0148)	[1]	ND	(0.0146)	[1]	ND	(9.59)	[20]	ND	(0.160)	[10]
bis(2-Chloroisopropyl)ether	ND	(0.0141)	[1]	ND	(0.0152)	[1]	ND	(9.99)	[20]	ND	(0.167)	[10]

PARAMETER	SE MW-04 G95-SE-MW-04-02 10 - 12			SE SB-01 G95-SE-SB-01-01 0 - 0.5			SE SB-01 G95-SE-SB-01-02 6 - 7.5			SE SB-02 G95-SE-SB-02-01 0 - 0.5		
SW8270 - Semivolatile Organics, cont. (mg/kg)												
bis(2-Ethylhexyl)phthalate	ND	(0.0134)	[1]	0.0349	(0.0247)	[1]	ND	(16.3)	[20]	ND	(0.272)	[10]
p-Chloroaniline	ND	(0.0262)	[1]	ND	(0.0152)	[1]	ND	(9.97)	[20]	ND	(0.167)	[10]

PARAMETER	SE SB-02 G95-SE-SB-02-02 6 - 7.5					SE SB-03 G95-SE-SB-03-01 0 - 0.5					SE SB-03 G95-SE-SB-03-02 5 - 6.5					SE MW-04 G95-SE-SS-01 0 - 0.5				
AK101 - Gasoline Range Organics (mg/kg)																				
Gasoline	0.132	J	(	1.00)	[1]	0.0280	J	(	1.00)	[1]	150		(	10.0)	[10]	0.120	J	(	1.00)	[1]
AK102 - Diesel Range Organics (mg/kg)																				
Diesel	26.0		(	4.00)	[1]	110		(	4.00)	[1]	7100		(	4.00)	[1]	150		(	6.00)	[1]
SW8240 - Volatile Organics (ug/kg)																				
1,1,1-Trichloroethane	ND		(	0.815)	[1]	ND		(	0.928)	[1]	ND		(	1.87)	[1]	ND		(	1.04)	[1]
1,1,2,2-Tetrachloroethane	ND		(	1.16)	[1]	ND	X	(	1.32)	[1]	ND		(	2.67)	[1]	ND		(	1.48)	[1]
1,1,2-Trichloroethane	ND		(	0.841)	[1]	ND	X	(	0.957)	[1]	ND		(	1.93)	[1]	ND		(	1.07)	[1]
1,1-Dichloroethane	ND		(	1.11)	[1]	ND		(	1.26)	[1]	ND		(	2.55)	[1]	ND		(	1.41)	[1]
1,1-Dichloroethene	ND		(	0.776)	[1]	ND		(	0.883)	[1]	ND		(	1.78)	[1]	ND		(	0.988)	[1]
1,2-Dichloroethane	ND		(	0.801)	[1]	ND		(	0.912)	[1]	ND		(	1.84)	[1]	ND		(	1.02)	[1]
1,2-Dichloropropane	ND		(	0.625)	[1]	ND		(	0.712)	[1]	ND		(	1.44)	[1]	ND		(	0.797)	[1]
2-Chloroethyl vinyl ether	ND		(	0.897)	[1]	ND		(	1.02)	[1]	ND		(	2.06)	[1]	ND		(	1.14)	[1]
2-Hexanone	ND		(	2.66)	[1]	ND	X	(	3.03)	[1]	ND		(	6.12)	[1]	ND		(	3.39)	[1]
4-Methyl-2-Pentanone(MIBK)	ND		(	2.37)	[1]	ND		(	2.69)	[1]	ND		(	5.43)	[1]	ND		(	3.01)	[1]
Acetone	94.4		(	4.95)	[1]	ND		(	5.64)	[1]	30.8		(	11.4)	[1]	ND		(	6.31)	[1]
Benzene	ND		(	0.890)	[1]	ND		(	1.01)	[1]	ND		(	2.04)	[1]	ND		(	1.13)	[1]
Bromodichloromethane	ND		(	0.802)	[1]	ND		(	0.913)	[1]	ND		(	1.84)	[1]	ND		(	1.02)	[1]
Bromomethane	ND		(	1.10)	[1]	ND		(	1.25)	[1]	ND		(	2.52)	[1]	ND		(	1.40)	[1]
Carbon disulfide	ND		(	0.773)	[1]	ND		(	0.880)	[1]	ND		(	1.78)	[1]	ND		(	0.985)	[1]
Carbon tetrachloride	ND		(	0.875)	[1]	ND		(	0.996)	[1]	ND		(	2.01)	[1]	ND		(	1.11)	[1]
Chlorobenzene	ND		(	0.795)	[1]	ND	X	(	0.905)	[1]	ND		(	1.83)	[1]	ND		(	1.01)	[1]
Chloroethane	ND		(	1.11)	[1]	ND		(	1.26)	[1]	ND		(	2.55)	[1]	ND		(	1.41)	[1]
Chloroform	ND		(	1.08)	[1]	ND		(	1.22)	[1]	ND		(	2.47)	[1]	ND		(	1.37)	[1]
Chloromethane	ND		(	0.968)	[1]	ND		(	1.10)	[1]	ND		(	2.23)	[1]	ND		(	1.23)	[1]
Dibromochloromethane	ND		(	0.821)	[1]	ND	X	(	0.935)	[1]	ND		(	1.89)	[1]	ND		(	1.05)	[1]
Ethyl benzene	ND		(	0.671)	[1]	ND	X	(	0.764)	[1]	ND		(	1.54)	[1]	ND		(	0.855)	[1]
Methyl ethyl ketone	18.1		(	3.89)	[1]	ND		(	4.43)	[1]	ND		(	8.94)	[1]	ND		(	4.95)	[1]
Methylene chloride	0.472	BJ	(	0.925)	[1]	0.649	BJ	(	1.05)	[1]	1.34	BJ	(	2.12)	[1]	0.422	BJ	(	1.18)	[1]
Styrene	ND		(	0.896)	[1]	ND	X	(	1.02)	[1]	ND		(	2.06)	[1]	ND		(	1.14)	[1]
Tetrachloroethene	ND		(	1.05)	[1]	ND	X	(	1.20)	[1]	ND		(	2.42)	[1]	ND		(	1.34)	[1]
Toluene	ND		(	0.766)	[1]	ND		(	0.872)	[1]	ND		(	1.76)	[1]	ND		(	0.976)	[1]
Tribromomethane(Bromoform)	ND		(	0.644)	[1]	ND	X	(	0.732)	[1]	ND		(	1.48)	[1]	ND		(	0.820)	[1]
Trichloroethene	ND		(	0.769)	[1]	ND		(	0.876)	[1]	ND		(	1.77)	[1]	ND		(	0.980)	[1]
Vinyl acetate	ND		(	0.891)	[1]	ND		(	1.01)	[1]	ND		(	2.05)	[1]	ND		(	1.13)	[1]

Compiled: 5 Oct[illegible] 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE SB-02 G95-SE-SB-02-02 6 - 7.5			SE SB-03 G95-SE-SB-03-01 0 - 0.5			SE SB-03 G95-SE-SB-03-02 5 - 6.5			SE MW-04 G95-SE-SS-01 0 - 0.5		
SW8240 - Volatile Organics, cont. (ug/kg)												
Vinyl chloride	ND	(0.743)	[1]	ND	(0.845)	[1]	ND	(1.71)	[1]	ND	(0.946)	[1]
cis-1,2-Dichloroethene	ND	(0.923)	[1]	ND	(1.05)	[1]	ND	(2.12)	[1]	ND	(1.18)	[1]
cis-1,3-Dichloropropene	ND	(0.658)	[1]	ND	(0.749)	[1]	ND	(1.51)	[1]	ND	(0.839)	[1]
m&p-Xylenes	ND	(1.59)	[1]	ND X	(1.81)	[1]	14.1	(3.65)	[1]	ND	(2.02)	[1]
o-Xylene	ND	(0.719)	[1]	ND X	(0.819)	[1]	4.82	(1.65)	[1]	ND	(0.916)	[1]
trans-1,2-Dichloroethene	ND	(1.12)	[1]	ND	(1.27)	[1]	ND	(2.57)	[1]	ND	(1.43)	[1]
trans-1,3-Dichloropropene	ND	(0.620)	[1]	ND	(0.706)	[1]	ND	(1.42)	[1]	ND	(0.790)	[1]
SW8270 - Semivolatile Organics (mg/kg)												
1,2,4-Trichlorobenzene	ND	(0.0151)	[1]	ND	(0.0171)	[1]	ND	(0.0497)	[1]	ND	(0.0210)	[1]
1,2-Dichlorobenzene	ND	(0.0157)	[1]	ND	(0.0178)	[1]	ND	(0.0516)	[1]	ND	(0.0121)	[1]
1,3-Dichlorobenzene	ND	(0.0156)	[1]	ND	(0.0177)	[1]	ND	(0.0514)	[1]	ND	(0.0135)	[1]
1,4-Dichlorobenzene	ND	(0.0222)	[1]	ND	(0.0252)	[1]	ND	(0.0732)	[1]	ND	(0.0161)	[1]
2,4,5-Trichlorophenol	ND	(0.0110)	[1]	ND	(0.0125)	[1]	ND	(0.0363)	[1]	ND	(0.0208)	[1]
2,4,6-Trichlorophenol	ND	(0.0245)	[1]	ND	(0.0278)	[1]	ND	(0.0808)	[1]	ND	(0.0148)	[1]
2,4-Dichlorophenol	ND	(0.00855)	[1]	ND	(0.00972)	[1]	ND	(0.0282)	[1]	ND	(0.0166)	[1]
2,4-Dimethylphenol	ND	(0.0235)	[1]	ND	(0.0267)	[1]	ND	(0.0773)	[1]	ND	(0.0367)	[1]
2,4-Dinitrophenol	ND	(0.0455)	[1]	ND	(0.0517)	[1]	ND	(0.150)	[1]	ND	(0.0622)	[1]
2,4-Dinitrotoluene	ND	(0.0139)	[1]	ND	(0.0157)	[1]	ND	(0.0457)	[1]	ND	(0.0273)	[1]
2,6-Dinitrotoluene	ND	(0.0299)	[1]	ND	(0.0340)	[1]	ND	(0.0986)	[1]	ND	(0.0218)	[1]
2-Chloronaphthalene	ND	(0.0184)	[1]	ND	(0.0209)	[1]	ND	(0.0607)	[1]	ND	(0.0377)	[1]
2-Chlorophenol	ND	(0.0162)	[1]	ND	(0.0184)	[1]	ND	(0.0534)	[1]	ND	(0.0140)	[1]
2-Methylnaphthalene	0.0265	(0.0238)	[1]	0.0336	(0.0270)	[1]	13.2	(0.0784)	[1]	ND	(0.0265)	[1]
2-Methylphenol	ND	(0.0107)	[1]	ND	(0.0121)	[1]	ND	(0.0352)	[1]	ND	(0.0104)	[1]
2-Nitroaniline	ND	(0.00624)	[1]	ND	(0.00710)	[1]	ND	(0.0206)	[1]	ND	(0.0248)	[1]
2-Nitrophenol	ND	(0.0178)	[1]	ND	(0.0202)	[1]	ND	(0.0586)	[1]	ND	(0.0351)	[1]
3,3'-Dichlorobenzidine	ND	(0.0109)	[1]	ND	(0.0123)	[1]	ND	(0.0358)	[1]	ND	(0.0299)	[1]
3-Nitroaniline	ND	(0.0151)	[1]	ND	(0.0172)	[1]	ND	(0.0498)	[1]	ND	(0.0124)	[1]
4,6-Dinitro-2-methylphenol	ND	(0.140)	[1]	ND	(0.159)	[1]	ND	(0.460)	[1]	ND	(0.0166)	[1]
4-Bromophenyl phenyl ether	ND	(0.0131)	[1]	ND	(0.0149)	[1]	ND	(0.0432)	[1]	ND	(0.0192)	[1]
4-Chloro-3-methylphenol	ND	(0.00657)	[1]	ND	(0.00746)	[1]	ND	(0.0216)	[1]	ND	(0.0297)	[1]
4-Chlorophenyl phenyl ether	ND	(0.0229)	[1]	ND	(0.0260)	[1]	ND	(0.0754)	[1]	ND	(0.00934)	[1]
4-Methylphenol/3-Methylphenol	ND	(0.0145)	[1]	ND	(0.0164)	[1]	ND	(0.0477)	[1]	ND	(0.0222)	[1]
4-Nitroaniline	ND	(0.0149)	[1]	ND	(0.0169)	[1]	ND	(0.0490)	[1]	ND	(0.0274)	[1]
4-Nitrophenol	ND	(0.0155)	[1]	ND	(0.0176)	[1]	ND	(0.0510)	[1]	ND	(0.0536)	[1]
Acenaphthene	ND	(0.0156)	[1]	ND	(0.0178)	[1]	0.225	(0.0515)	[1]	ND	(0.0301)	[1]

Compiled: 5 October 1995 () = Detection Limit [] = Dilution Factor ND = Not Detected NA = Not Applicable

PARAMETER	SE SB-02 G95-SE-SB-02-02 6 - 7.5			SE SB-03 G95-SE-SB-03-01 0 - 0.5			SE SB-03 G95-SE-SB-03-02 5 - 6.5			SE MW-04 G95-SE-SS-01 0 - 0.5		
SW8270 - Semivolatile Organics, cont. (mg/kg)												
Acenaphthylene	ND	(0.0140)	[1]	ND	(0.0159)	[1]	ND	(0.0462)	[1]	ND	(0.0213)	[1]
Anthracene	ND	(0.0188)	[1]	ND	(0.0214)	[1]	ND	(0.0621)	[1]	ND	(0.0289)	[1]
Benzo(a)anthracene	ND	(0.0207)	[1]	ND	(0.0235)	[1]	ND	(0.0682)	[1]	ND	(0.0282)	[1]
Benzo(a)pyrene	ND	(0.0217)	[1]	ND	(0.0246)	[1]	ND	(0.0715)	[1]	ND	(0.0232)	[1]
Benzo(b)fluoranthene	ND	(0.0195)	[1]	ND	(0.0221)	[1]	ND	(0.0641)	[1]	ND	(0.0508)	[1]
Benzo(g,h,i)perylene	ND	(0.0269)	[1]	ND	(0.0305)	[1]	ND	(0.0885)	[1]	ND	(0.0289)	[1]
Benzo(k)fluoranthene	ND	(0.0339)	[1]	ND	(0.0386)	[1]	ND	(0.112)	[1]	ND	(0.0819)	[1]
Benzoic acid	ND	(0.218)	[1]	ND	(0.247)	[1]	ND	(0.717)	[1]	ND	(0.296)	[1]
Benzyl alcohol	ND	(0.0401)	[1]	ND	(0.0455)	[1]	ND	(0.132)	[1]	ND	(0.0284)	[1]
Butylbenzylphthalate	ND	(0.0228)	[1]	ND	(0.0260)	[1]	ND	(0.0753)	[1]	ND	(0.0104)	[1]
Chrysene	ND	(0.0222)	[1]	ND	(0.0252)	[1]	ND	(0.0732)	[1]	ND	(0.0376)	[1]
Di-n-butylphthalate	ND	(0.0211)	[1]	ND	(0.0240)	[1]	ND	(0.0696)	[1]	ND	(0.0160)	[1]
Di-n-octylphthalate	ND	(0.0326)	[1]	ND	(0.0370)	[1]	ND	(0.107)	[1]	ND	(0.0157)	[1]
Dibenz(a,h)anthracene	ND	(0.0278)	[1]	ND	(0.0316)	[1]	ND	(0.0916)	[1]	ND	(0.0342)	[1]
Dibenzofuran	ND	(0.0224)	[1]	ND	(0.0254)	[1]	ND	(0.0737)	[1]	ND	(0.0224)	[1]
Diethylphthalate	ND	(0.0154)	[1]	ND	(0.0175)	[1]	ND	(0.0508)	[1]	ND	(0.0207)	[1]
Dimethylphthalate	ND	(0.0132)	[1]	ND	(0.0150)	[1]	ND	(0.0435)	[1]	ND	(0.0154)	[1]
Diphenylamine (N-Nitrosodiphenylamine)	ND	(0.0164)	[1]	ND	(0.0186)	[1]	ND	(0.0540)	[1]	ND	(0.0366)	[1]
Fluoranthene	ND	(0.0218)	[1]	ND	(0.0248)	[1]	ND	(0.0718)	[1]	ND	(0.0301)	[1]
Fluorene	ND	(0.0231)	[1]	ND	(0.0262)	[1]	0.563	(0.0761)	[1]	ND	(0.0267)	[1]
Hexachlorobenzene	ND	(0.0157)	[1]	ND	(0.0179)	[1]	ND	(0.0519)	[1]	ND	(0.0355)	[1]
Hexachlorobutadiene	ND	(0.0160)	[1]	ND	(0.0182)	[1]	ND	(0.0528)	[1]	ND	(0.0272)	[1]
Hexachlorocyclopentadiene	ND	(0.197)	[1]	ND	(0.224)	[1]	ND	(0.648)	[1]	ND	(0.146)	[1]
Hexachloroethane	ND	(0.0137)	[1]	ND	(0.0155)	[1]	ND	(0.0451)	[1]	ND	(0.0382)	[1]
Indeno(1,2,3-cd)pyrene	ND	(0.0253)	[1]	ND	(0.0288)	[1]	ND	(0.0834)	[1]	ND	(0.0395)	[1]
Isophorone	ND	(0.0134)	[1]	ND	(0.0152)	[1]	ND	(0.0440)	[1]	ND	(0.0168)	[1]
N-Nitroso-di-n-propylamine	ND	(0.00917)	[1]	ND	(0.0104)	[1]	ND	(0.0302)	[1]	ND	(0.0264)	[1]
Naphthalene	0.0577	(0.0214)	[1]	0.0225 J	(0.0243)	[1]	8.97	(0.0704)	[1]	ND	(0.0243)	[1]
Nitrobenzene	ND	(0.0112)	[1]	ND	(0.0127)	[1]	ND	(0.0369)	[1]	ND	(0.0171)	[1]
Pentachlorophenol	ND	(0.00624)	[1]	ND	(0.00710)	[1]	ND	(0.0206)	[1]	ND	(0.0158)	[1]
Phenanthrene	ND	(0.0261)	[1]	ND	(0.0296)	[1]	0.232	(0.0859)	[1]	ND	(0.0200)	[1]
Phenol	ND	(0.0145)	[1]	ND	(0.0165)	[1]	ND	(0.0478)	[1]	ND	(0.0351)	[1]
Pyrene	ND	(0.0267)	[1]	ND	(0.0303)	[1]	ND	(0.0879)	[1]	ND	(0.0276)	[1]
bis(2-Chloroethoxy)methane	ND	(0.0145)	[1]	ND	(0.0165)	[1]	ND	(0.0478)	[1]	ND	(0.0121)	[1]
bis(2-Chloroethyl)ether	ND	(0.0145)	[1]	ND	(0.0165)	[1]	ND	(0.0478)	[1]	ND	(0.0189)	[1]
bis(2-Chloroisopropyl)ether	ND	(0.0151)	[1]	ND	(0.0172)	[1]	ND	(0.0498)	[1]	ND	(0.0180)	[1]

PARAMETER	SE SB-02 G95-SE-SB-02-02 6 - 7.5	SE SB-03 G95-SE-SB-03-01 0 - 0.5	SE SB-03 G95-SE-SB-03-02 5 - 6.5	SE MW-04 G95-SE-SS-01 0 - 0.5
SW8270 - Semivolatile Organics, cont. (mg/kg)				
bis(2-Ethylhexyl)phthalate	ND (0.0246) [1]	ND (0.0280) [1]	ND (0.0811) [1]	0.285 (0.0170) [1]
p-Chloroaniline	ND (0.0151) [1]	ND (0.0171) [1]	ND (0.0497) [1]	ND (0.0334) [1]

TABLE A-21 RESULTS FOR INORGANIC ANALYSES OF SOIL SAMPLES, GALENA 1995.

PARAMETER	SITE ID: 13 LOCATION ID: SS-01 SAMPLE ID: G95-13-SS-01 BEG. DEPTH - END DEPTH (FT.): 0 - 0.5					SITE ID: 13 LOCATION ID: SS-02 SAMPLE ID: G95-13-SS-02 BEG. DEPTH - END DEPTH (FT.): 0 - 0.5					SITE ID: 13 LOCATION ID: SS-03 SAMPLE ID: G95-13-SS-03 BEG. DEPTH - END DEPTH (FT.): 0 - 0.5					SITE ID: 13 LOCATION ID: SS-04 SAMPLE ID: G95-13-SS-04 BEG. DEPTH - END DEPTH (FT.): 0 - 0.5				
ASTMD2216 - Modified (%)																				
Percent moisture	4.80		(	0.00)	[1]	2.78		(	0.00)	[1]	12.0		(	0.00)	[1]	3.40		(	0.00)	[1]
SW6010 - Metals (mg/kg)																				
Aluminum	6960		(	2.46)	[1]	6090		(	2.53)	[1]	11800		(	2.61)	[1]	5840		(	2.27)	[1]
Antimony	31.0		(	5.22)	[1]	12.9		(	5.38)	[1]	30.5		(	5.55)	[1]	25.4		(	4.82)	[1]
Arsenic	14.3		(	3.09)	[1]	30.4		(	3.19)	[1]	55.3		(	3.29)	[1]	14.3		(	2.85)	[1]
Barium	84.8		(	0.0620)	[1]	74.9		(	0.0640)	[1]	192		(	0.0660)	[1]	95.7		(	0.0573)	[1]
Beryllium	0.0401	B	(	0.0293)	[1]	0.0294	BJ	(	0.0302)	[1]	0.231		(	0.0312)	[1]	0.146	B	(	0.0270)	[1]
Cadmium	-0.717	J	(	0.332)	[1]	-0.870	J	(	0.342)	[1]	-1.18	J	(	0.353)	[1]	-0.608	J	(	0.306)	[1]
Calcium	3900		(	1.22)	[1]	3390		(	1.25)	[1]	15400		(	1.29)	[1]	5730		(	1.12)	[1]
Chromium	38.8		(	0.175)	[1]	10.3		(	0.181)	[1]	23.5		(	0.186)	[1]	11.3		(	0.162)	[1]
Cobalt	8.29		(	0.479)	[1]	7.32		(	0.494)	[1]	9.58		(	0.510)	[1]	5.78		(	0.442)	[1]
Copper	9.52		(	0.447)	[1]	8.82		(	0.461)	[1]	22.9		(	0.475)	[1]	9.14		(	0.413)	[1]
Iron	12300		(	0.453)	[1]	12300		(	0.467)	[1]	21400		(	0.482)	[1]	11100		(	0.418)	[1]
Lead	14.1		(	1.89)	[1]	12.2		(	1.95)	[1]	-1.07	J	(	2.01)	[1]	4.67		(	1.74)	[1]
Magnesium	4380		(	8.57)	[1]	3080		(	8.84)	[1]	7580		(	9.12)	[1]	3410		(	7.91)	[1]
Manganese	233		(	0.438)	[1]	212		(	0.452)	[1]	406		(	0.466)	[1]	197		(	0.405)	[1]
Molybdenum	0.328	J	(	0.342)	[1]	1.64		(	0.352)	[1]	1.14		(	0.363)	[1]	0.265	J	(	0.315)	[1]
Nickel	27.8		(	1.02)	[1]	18.1		(	1.05)	[1]	25.7		(	1.08)	[1]	15.4		(	0.937)	[1]
Potassium	515		(	39.2)	[1]	483		(	40.5)	[1]	1270		(	41.7)	[1]	540		(	36.2)	[1]
Selenium	-16.9	J	(	5.20)	[1]	-4.84	J	(	5.36)	[1]	-33.5	J	(	5.53)	[1]	-5.92	J	(	4.80)	[1]
Silver	-0.695	J	(	0.394)	[1]	-0.703	J	(	0.407)	[1]	-1.48	J	(	0.419)	[1]	-0.669	J	(	0.364)	[1]
Sodium	158		(	2.71)	[1]	136		(	2.80)	[1]	427		(	2.89)	[1]	138		(	2.50)	[1]
Thallium	19.1		(	5.48)	[1]	-1.18	J	(	5.65)	[1]	29.4		(	5.83)	[1]	5.95		(	5.06)	[1]
Vanadium	26.6		(	0.260)	[1]	24.5		(	0.269)	[1]	44.6		(	0.277)	[1]	25.4		(	0.240)	[1]
Zinc	27.9		(	0.309)	[1]	28.9		(	0.318)	[1]	57.5		(	0.328)	[1]	25.8		(	0.285)	[1]

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PARAMETER	13 SS-01 G95-13-SS-01 0 - 0.5			13 SS-02 G95-13-SS-02 0 - 0.5				13 SS-03 G95-13-SS-03 0 - 0.5				13 SS-04 G95-13-SS-04 0 - 0.5			
SW7060 - Arsenic (mg/kg)															
Arsenic	3.37	(0.164)	[2]	4.05		(0.183)	[2]	11.7		(0.391)	[4]	5.77		(0.193)	[2]
SW7421 - Lead (mg/kg)															
Lead	18.0	(0.632)	[10]	10.1		(0.281)	[4]	7.97		(0.301)	[4]	3.85		(0.0657)	[1]
SW7740 - Selenium (mg/kg)															
Selenium	0.172	(0.109)	[1]	0.0712	J	(0.121)	[1]	0.593		(0.130)	[1]	0.283		(0.113)	[1]

PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5				13 SS-06 G95-13-SS-06 0 - 0.5				SE MW-02 G95-SE-MW-02-02 10 - 12				SE MW-03 G95-SE-MW-03-02 10 - 12			
ASTMD2216 - Modified (%)																
Percent moisture	3.97		(0.00)	[1]	14.6		(0.00)	[1]	22.3		(0.00)	[1]	3.55		(0.00)	[1]
SW6010 - Metals (mg/kg)																
Aluminum	5510		(2.46)	[1]	9290		(2.83)	[1]	NA				NA			
Antimony	27.2		(5.22)	[1]	49.2		(6.02)	[1]	NA				NA			
Arsenic	23.8		(3.09)	[1]	47.3		(3.57)	[1]	NA				NA			
Barium	100		(0.0620)	[1]	150		(0.0716)	[1]	NA				NA			
Beryllium	0.0676	B	(0.0293)	[1]	0.337		(0.0338)	[1]	NA				NA			
Cadmium	-0.217	J	(0.332)	[1]	-0.881	J	(0.383)	[1]	NA				NA			
Calcium	5410		(1.22)	[1]	7490		(1.40)	[1]	NA				NA			
Chromium	13.0		(0.175)	[1]	18.6		(0.202)	[1]	NA				NA			
Cobalt	5.00		(0.479)	[1]	8.82		(0.553)	[1]	NA				NA			
Copper	9.14		(0.447)	[1]	16.1		(0.516)	[1]	NA				NA			
Iron	10200		(0.453)	[1]	17200		(0.523)	[1]	NA				NA			
Lead	66.0		(1.89)	[1]	18.7		(2.18)	[1]	NA				NA			
Magnesium	3280		(8.57)	[1]	5010		(9.89)	[1]	NA				NA			
Manganese	187		(0.438)	[1]	323		(0.506)	[1]	NA				NA			
Molybdenum	1.45		(0.342)	[1]	1.38		(0.394)	[1]	NA				NA			
Nickel	12.8		(1.01)	[1]	17.1		(1.17)	[1]	NA				NA			
Potassium	585		(39.2)	[1]	922		(45.3)	[1]	NA				NA			
Selenium	-9.01	J	(5.20)	[1]	-5.46	J	(6.00)	[1]	NA				NA			
Silver	-0.750	J	(0.394)	[1]	-1.33	J	(0.455)	[1]	NA				NA			
Sodium	167		(2.71)	[1]	301		(3.13)	[1]	NA				NA			
Thallium	28.9		(5.48)	[1]	7.95		(6.32)	[1]	NA				NA			
Vanadium	22.4		(0.260)	[1]	35.4		(0.300)	[1]	NA				NA			
Zinc	46.7		(0.309)	[1]	53.2		(0.356)	[1]	NA				NA			
SW7060 - Arsenic (mg/kg)																
Arsenic	4.89		(0.165)	[2]	10.3		(0.196)	[2]	NA				NA			
SW7421 - Lead (mg/kg)																
Lead	76.6		(2.54)	[40]	21.9		(0.755)	[10]	3.36	S	(0.0780)	[1]	2.90	S	(0.0703)	[1]
SW7740 - Selenium (mg/kg)																
Selenium	0.171		(0.110)	[1]	0.404		(0.130)	[1]	NA				NA			

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PARAMETER	13 SS-05 G95-13-SS-05 0 - 0.5	13 SS-06 G95-13-SS-06 0 - 0.5	SE MW-02 G95-SE-MW-02-02 10 - 12	SE MW-03 G95-SE-MW-03-02 10 - 12

PARAMETER	SE MW-04 G95-SE-MW-04-02 10 - 12	SE SB-01 G95-SE-SB-01-01 0 - 0.5	SE SB-01 G95-SE-SB-01-02 6 - 7.5	SE SB-02 G95-SE-SB-02-01 0 - 0.5
ASTMD2216 - Modified (%)				
Percent moisture	7.19 (0.00) [1]	8.76 (0.00) [1]	20.9 (0.00) [1]	16.4 (0.00) [1]
SW7421 - Lead (mg/kg)				
Lead	3.28 S (0.0701) [1]	51.3 (1.38) [20]	7.32 (0.272) [4]	12.9 (0.288) [4]

PARAMETER	SE SB-02 G95-SE-SB-02-02 6 - 7.5	SE SB-03 G95-SE-SB-03-01 0 - 0.5	SE SB-03 G95-SE-SB-03-02 5 - 6.5	SE MW-04 G95-SE-SS-01 0 - 0.5
ASTMD2216 - Modified (%)				
Percent moisture	7.80 (0.00) [1]	19.0 (0.00) [1]	18.3 (0.00) [1]	27.2 (0.00) [1]
SW7421 - Lead (mg/kg)				
Lead	3.52 (0.0717) [1]	36.1 (0.754) [10]	5.96 (0.261) [4]	8.90 S (0.440) [4]

Compiled: 2 Oct[illegible]r 1995 () = Detection Limit [] = Dilution Factor ND = No[illegible]etected NA = Not Applicable

APPENDIX B.1

QA/QC Discussion (1995)

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EXECUTIVE SUMMARY

The quality assurance/quality control (QA/QC) data for the analytical measurement data were reviewed to determine the usability and defensibility of the chemical measurement data for the 1995 Galena Airport field investigation. The review focused on field and laboratory blanks, matrix spikes, surrogate recoveries, and laboratory control samples. Overall, QA/QC data associated with this program indicate that measurement data are acceptable and defensible. The QA/QC data indicate that the QC mechanisms were effective in ensuring measurement data reliability within the expected limits of sampling and analytical error.

There were concerns identified during the QA/QC review that should be noted prior to final interpretation of the analytical results. The concerns include:

Water Samples

- SW6010—Cadmium was found in the method blank at a concentration similar to those observed in the field samples. Therefore, the cadmium results are flagged with a "B" indicating that the reported results may be due to laboratory contamination. All Southeast Runway groundwater sample cadmium measurement values were affected.

  — The calcium spike added to the matrix spike (MS) and matrix spike duplicate (MSD) was less than 25% of the original sample concentration. Therefore, the MS and MSD recoveries were not a meaningful measurement of accuracy or precision for calcium in the sample matrix.

- AK102—Diesel range organics (DRO) laboratory control sample (LCS) results indicate a positive bias. All four LCS and two of three method blanks analyzed by this method had surrogate recoveries up to 159%, above the method limits of 60%-120% for laboratory-derived quality control samples. However, the surrogate recoveries for the field samples were within the method acceptance limits of 50%-150% (for field-derived samples). The data for the affected samples were used as a screening tool for locating a DRO groundwater plume and the subsequent placement of monitoring wells. The data is useable for this purpose.

  — Due to high concentrations of extractable organics in field sample G95-SE-MW-01-01, the surrogate was diluted out when the sample had to be diluted for analyses. However, the surrogate recovery in the field duplicate of this sample was within the acceptance criteria. No bias is indicated by these data.

Soil Samples

- SW8240—Two of the three surrogate recoveries for sample G95-13-SS-05 were slightly below the acceptance criteria, indicating matrix interference for this sample. These data indicate that the results for this sample may be biased 25% low.

  — Due to obvious matrix interferences, the recovery for at least one internal standard was low for samples G95-13-SS-05, G95-SE-SB-02-01, and G95-SE-SB-03-01. Analytes which were

quantitated using the affected internal standard(s) are flagged with an "X."

- SW8270—All surrogate recoveries were within QAPP acceptance limits. However, due to obvious matrix interferences, the recovery for one internal standard was low for sample G95-13-SS-05. Analytes which were quantitated using the affected internal standard are flagged with an "X."

- SW8080—The method blank contained 0.566 µg/kg aldrin and 1.5 µg/kg endrin at concentrations below the QAPP reporting limits of 3 µg/kg and 4 µg/kg, respectively. Samples containing less than five times the blank concentrations have been flagged with a "B" indicating that the reported concentration may be due to laboratory contamination. Affected samples are: G95-13-SS-01, G95-13-SS-03, G95-13-SS-03, and G95-13-SS-04.

- SW6010—The method blank contained 0.0360 mg/kg beryllium (below the QAPP reporting limit of 0.3 mg/kg). Samples containing less than 0.18 mg/kg beryllium (5 times the method blank concentration) have been flagged with a "B" indicating that the reported concentrations may be due to laboratory contamination. Affected samples include: G95-13-SS-01, G95-13-SS-02, G95-13-SS-04, and G95-13-SS-05.

  — LCS and MS recoveries for selenium were below the acceptance criteria for this method. Selenium data obtained using SW-846 Method SW7740 should be used in the reporting and data evaluation tasks.

- SW7241—The analytical spike recovery was below the laboratory acceptance criteria of 85-115% for one analytical batch. Affected samples were reanalyzed using the method of standard additions (MSA) to minimize potential matrix interferences. Affected samples are G95-SE-MW-02-02, G95-SE-MW-03-02. G95-SE-MW-04-02, and G95-SS-01. The lead results have been flagged with an "S" to indicate that they were obtained using MSA.

- AK101—The LCS surrogate recovery was 132%, above the method limits of 60-120% for laboratory-derived QC samples. Additionally, one of sixteen field samples (G95-SE-SB-01-03) had a surrogate recovery of 159%, above the method criteria of 50%-150% for field samples. All remaining field, blank, and QC sample surrogate recoveries were within method-specified criteria. No bias is indicated by these data.

- AK102—Surrogate recoveries for one of two method blanks and one of four LCS were above the method acceptance limits of 60-120% for laboratory QC samples. No bias is indicated by the blank or LCS surrogate recoveries.

  — High surrogate recoveries in two of sixteen field samples and two of four MS samples were attributed to matrix interferences. Affected samples were G95-13-SS-05, G95-13-SS-02, and G95-SE-SB-02-01.

  — Additionally, due to high concentrations of extractable organics in field samples G95-SE-SB-03-02 and G95-SE-SB-01-02, the surrogate was diluted out when the samples had to be diluted for analyses.

The data user should note that the data reported for this investigation are uncensored. Traditionally, analytical chemistry data have been

censored at a concentration (e.g., method detection limit, practical quantitation limit, etc). The data contained in the analytical reports were not censored; consequently, low levels (greater than zero) of analytes are reported. However, the low levels reported may be similar to concentrations detected in blanks or attributed to systemic sources. Therefore, data users are encouraged to review the concentrations of analytes detected in the blanks relative to the concentrations detected in the field samples in order to determine the reasonability of data prior to making final conclusions. The QA/QC review for each method and matrix is summarized in the following sections.

Section 1
SUMMARY OF QA/QC ACTIVITIES

This section presents a summary of analytical results for quality control (QC) samples, estimates of measurement precision and accuracy on the basis of analysis of QC samples, and potential limitations in the use of the data.

Overall, quality assurance/quality control (QA/QC) data associated with this program indicate that measurement data are acceptable and defensible for Galena Airport soil and water samples. The QA/QC data indicate that the QC mechanisms were effective in ensuring measurement data reliability within the expected limits of sampling and analytical error.

QC data provide information for identifying and defining qualitative limitations associated with measurement data. The following key types of QC procedures provide the primary basis for quantitatively evaluating data quality:

- Field and laboratory blank samples;
- Duplicate field samples;
- Matrix and surrogate spiked samples;
- Laboratory control samples; and
- Analytical spiked samples.

The results for these QC samples are summarized in the following sections. Detailed QC samples results can be found in Attachment D.

1.1 Blank Samples

Blanks are laboratory pure matrices designed to detect the introduction of contamination or other artifacts into the sampling and analytical process. This is an especially important role in measurement programs involving trace-level analyses. Results are presented in the following sections for the analysis of laboratory equipment rinsate, ambient conditions, and trip blanks.

1.1.1 Laboratory Blanks

Laboratory blanks pertain only to the analytical process. Typically included with each batch of samples analyzed, laboratory blanks provide an ongoing check of the analytical process for systemic sample contamination. Laboratory method (reagent) blanks are processed through the entire preparation and analytical measurement techniques, in the same manner as the native field samples, and provide an indication of systemic contamination whose root cause may be in the preparation or measurement systems. Laboratory system blanks are processed only through the analytical measurement systems and provide data to assess potential systemic contamination of the measurement system. When contamination is indicated by blank values above pre-established levels, corrective action is initiated to identify and eliminate the source of contamination. If possible, the affected samples are reanalyzed.

1.1.2 Equipment Blanks

An equipment, or rinsate, blank is an aliquot of analyte-free (i.e., Type II or organic-free) water that is poured over or through the sampling equipment, collected in a sample container, and returned to the laboratory as a sample. Equipment blanks are used to demonstrate whether a nondedicated sampling device has been adequately cleaned. Equipment blank results reflect the combined effects of sample collection, handling, transportation, storage, and analysis.

1.1.3 Ambient Conditions Blanks

Ambient blanks are samples of Type II reagent grade water that are collected and processed using the same sampling and handling procedures as other samples. Ambient blanks are used to assess the potential introduction of contaminants to the samples during sample collection and analysis, and are prepared only for aqueous volatile

organic compounds (VOC) samples. Organic-free water was prepared with Type II water that had been filtered, deionized, and boiled to volatilize organic compounds. The water was then continuously purged with nitrogen to prevent re-entry of volatile organic compounds. This water was tested by GC analysis prior to use in the field blanks to ensure complete purity.

1.1.4 Trip Blanks

A trip blank is a sample of organic-free water (prepared as for ambient blanks) that is placed in the sample bottle in an uncontaminated area in the laboratory prior to going in the field. The trip blank is not opened in the field, but is transported back to the laboratory with the routine samples. Trip blanks are handled the same as other samples and serve to identify contamination from sample containers or transportation and storage procedures. Trip blanks accompany samples of both soil and groundwater matrices for volatile organic analyses only. When volatile organics are detected in trip blanks, it indicates that sample handling, transportation, or storage conditions may have contaminated investigative samples.

1.2 Duplicate Field Samples

A field duplicate sample is a second sample collected at the same location as the original sample. Duplicate sample results are used to assess precision, including variability associated with both the laboratory analysis and the sample collection process. Duplicate samples are collected simultaneously or in immediate succession, using identical recovery techniques, and treated in an identical manner during storage, transportation, and analysis. Duplicate water samples were collected and submitted blind to the laboratory at a frequency of 10% for this program.

1.3 Matrix and Surrogate Spikes

Matrix spiked (MS) samples and surrogate spiked samples are part of the QC protocol for the analysis of organic compounds; they are also part of the QC protocol for the metals analyses. MS samples are field samples to which known amounts of the analytes of interest have been added. Both a spiked and an unspiked aliquot are analyzed. The difference between the two aliquots is calculated and compared with the amount of spike added before the extraction process. Since actual samples are used for the recovery determination, any matrix effects are taken into consideration. Usually expressed as a percentage of the spiked amount, spike recovery can be considered as a measure of the measurement accuracy in the actual sample matrix. For a single sample, this includes the combined effects of bias, or systematic error, and the measurement variability due to imprecision, and thus reflects overall uncertainty in the measurement results.

Surrogate spike samples are similar to MS samples except that an unspiked aliquot is not analyzed. Instead, all samples are spiked with one or more of the surrogate compounds that are chemically similar to the analytes of interest but not expected to be present in the actual field samples. Recovery of these surrogate compounds gives an estimate of the effectiveness of the extraction and analysis for a single sample.

1.4 Laboratory Control Samples

Laboratory control samples (LCS) are used to assess analytical performance under a given set of standard conditions. These are synthetic samples containing some or all of the analytes of interest at known concentrations and prepared independently from calibration standards. Typically analyzed with each analytical batch, LCS may be used to estimate analytical bias and accuracy by comparing measured results with theoretical concentrations. Although LCS do not address matrix effects as spiked samples do, they allow batch-to-batch variability to be considered and are useful in identifying trends.

1.5 Analytical Spikes

The analytical spike (AS) is used as part of

the analytical protocol for analyses of inorganic compounds by graphite furnace atomic absorption. The spike is added to the sample digestate after digestion and prior to analysis. Thus, the AS indicates only those matrix interferences that affect analyses. Expressed as a percent recovery of the spiked amount, the AS recovery provides a measure of the accuracy of the analyses. When AS recovery is less than 85%, all of the samples in the associated analytical batch are analyzed by the method of standard additions to minimize the effects of matrix interferences on method accuracy.

Section 2
MAXIMUM HOLDING TIMES

Maximum holding times have been established for each method to prevent possible change in concentration of the compounds of interest over time. Compounds of interest may be lost because of biological degradation or volatilization, or concentrations of halomethanes may increase in the presence of free chloride. Samples for volatile and semivolatile organic analyses are particularly susceptible to these types of losses. Adherence to holding time requirements were reviewed while analytical measurement data were qualitatively evaluated.

A detailed listings of sample IDs, analytical and field batch numbers, date of collection, preparation, and analysis are presented in the Date and Batch Summary Tables in Attachment D. As documented in these tables, all holding time requirements were met.

Section 3
QUALITY CONTROL RESULTS FOR GALENA AIRPORT WATER SAMPLE ANALYSES

QC procedures and activities implemented during this program provide a basis for estimating data precision and accuracy. QC procedures associated with investigative water samples included the analysis of laboratory and field blanks, matrix and surrogate spikes, and LCSs. Results of these analyses are discussed in this section.

3.1 Volatile Organics by SW-846 Method 8260

All sample analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Sample Results—A method blank (see Table 3-1) was analyzed with the analytical batch to assess potential background contamination in the laboratory. The method blank sample analyzed did not have any target analytes reported at or above the QAPP acceptance limits. Dibromomethane was reported at a concentration slightly above the sample-specific detection limit of 0.107 µg/L. This concentration was below the reporting limit of 1 µg/L specified in the QAPP and required no corrective action by the laboratory. However, all dibromomethane data from this analytical batch with concentrations less than five times the method blank concentration were flagged with a 'B' to indicate potential blank contamination. Overall, the results of these analyses indicate that no significant contaminant contribution from handling, preparation, or analyses occurred in the laboratory.

Ambient Blank Sample Results—An ambient blank (see Table 3-1) was analyzed to assess potential background contamination at the site. The ambient blank analyzed did not have any target analytes reported at or above the QAPP acceptance limits. There were several compounds (i.e., acetone, chloroform, dibromomethane, methylene chloride, and tetrachloroethene) reported at low concentrations near the sample-specific detection limits. However, the concentrations reported for these analytes were below the reporting limits specified in the QAPP. Overall, the results of these analyses indicate that there was no significant contaminant contribution from ambient site conditions.

Trip Blank Sample Results—One trip blank was collected and analyzed with the Galena Airport groundwater samples. The trip blank accompanied the samples shipped to the laboratory so that the samples could be monitored for potential contamination during sampling, storage or transport of the samples. The results for the trip blank are given in Table 3-1. Several compounds were detected in the trip blank at concentrations less than the acceptance limits in the QAPP. The trip blank did contain 3.66 µg/L 2-butanone (which was above the QAPP limit of 2.0 µg/L). However, 2-butanone was not detected in any of the field samples. Consequently, the trip blank results do not indicate significant contamination of samples from sampling, storage, or transport of the field samples.

Surrogate Recoveries—Three surrogate standards (toluene-d8, 1-bromo-4-fluorobenzene, and 1,2-dichloroethane-d4) were added to every sample analyzed for volatile organics. The surrogates were used to monitor purging efficiency and to provide an estimate of analytical measurement accuracy. The surrogate recoveries for the field samples, blanks, field duplicate, matrix spike, and laboratory control samples were all within the laboratory control limits for 1,4-bromofluoro-

benzene (84%-116%), 1,2-dichloroethane-d4 (83%-121%), and toluene-d8 (81%-115%). The surrogate recoveries are summarized in Table 3-3. The surrogate recoveries indicate that the analytical systems were in control at the time of sample analysis.

Matrix Spike Results—One sample was spiked in duplicate with five VOCs to assess matrix effects on analyte recovery. The samples were spiked with benzene, chlorobenzene, 1,1-dichloroethene, toluene, and trichloroethene. The percent recovery for all of the spike compounds was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate excellent method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample were analyzed in the same analytical batch as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. The results of the two LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. The LCS results analyzed with the samples are summarized in Tables 3-4 and 3-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—One field sample was collected in duplicate and submitted to the laboratory for analyses. There were several analytes detected at similar concentrations in both the normal sample and the field duplicate pair. The RPD (see Table 3-6) for the detected compounds indicate acceptable sampling and analytical precision.

3.2 Semivolatile Organics by SW-846 Method 8270

All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with the analytical batch to assess potential background contamination in the laboratory. Semivolatile compounds were not detected in the method blank. The results of these analyses indicate that no significant contribution of contaminants from handling, preparation, or analyses occurred in the laboratory. A summary of the blanks analyzed with the field samples is provided in Table 3-1.

Surrogate Recoveries—Six surrogate standards were added to every sample analyzed for semivolatile organics. The surrogates spiked in the samples were 2-fluorobiphenyl, 2-fluorophenol, nitrobenzene-d5, phenol-d5, terphenyl-d14, and 2,4,6-tribromophenol. The surrogate recoveries were within the laboratory control limits for 2-fluorobiphenyl (43%-116%), 2-fluorophenol (31%-100%), nitrobenzene-d5 (45%-114%), phenol-d5 (28%-122%), terphenyl-d14 (66%-122%), and 2,4,6-tribromophenol (26%-123%). The surrogate recoveries for the field samples, blanks, and spikes are summarized in Table 3-2. These surrogate recoveries indicate that the analytical systems were in control at the time of sample analysis.

Matrix Spike Results—One sample and its duplicate were spiked with 11 semivolatile compounds to assess matrix effects on analyte recovery. The percent recovery for all of the spike compounds was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate excellent method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample and a third LCS were analyzed in the same analytical batch as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for all three samples. All the RPD for the LCS and LCS duplicate samples were within the laboratory control limits. The LCS results are summarized in Tables 3-4 and 3-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—One sample was collected in duplicate and submitted to the laboratory for analyses. The concentrations detected in the original and field duplicate sample and the RPD values are summarized in Table 3-6. Target compounds were detected at the same relative concentrations in the field duplicate samples. These results indicate acceptable precision of the field collection and analytical measurement systems.

3.3 Inductively Coupled Plasma Emission Spectroscopy Metals Analyses

Samples were collected and analyzed for aluminum, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc by SW-846 Method 6010. All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with the analytical batch to assess potential background contamination in the laboratory. The method blank had low levels of cadmium, calcium, iron, magnesium, and sodium which were all detected at concentrations below the QAPP-specified reporting limits. The individual measurement results for the method blanks are summarized in Table 3-1. The measurement values are within the QAPP criteria; consequently, the method blank results were acceptable. Overall, the results of these analyses indicate that no significant contaminant contribution from handling, preparation, or analyses occurred in the laboratory. However, the concentration of cadmium in the field samples is within two times the blank concentration. Consequently, the cadmium field data are flagged indicating that the reported results may be due to laboratory contamination.

Matrix Spike Results—One sample was spiked in duplicate, with the target compounds to assess matrix effects on metals recovery. Except for calcium, the spiked compounds were within laboratory control limits for both MS and MSD recoveries. The calcium spike was less than 25% of the concentration in the sample. Therefore, the MS and MSD was not a meaningful measurement of accuracy or precision for calcium in the sample matrix. The LCS/LCSD for calcium was within QAPP tolerance limits, indicating that the system was in control during analyses. The MSD results demonstrate excellent method precision. The MS and MSD recoveries and calculated RPD values are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample was analyzed with the analytical batch. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. The LCS results are summarized in Tables 3-4 and 3-5. A review of these data

indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—One sample was collected in duplicate and submitted to the laboratory for analyses. When the target analytes were detected at concentrations above the QAPP limits, they were reported at the same relative concentrations. Overall, the results indicate acceptable precision of the field collection and analytical measurement systems. The duplicate pair results and RPD are summarized in Table 3-6.

3.4 Graphite Furnace Lead by SW-846 Method 7421

Samples were collected and analyzed for lead by SW-846 Method 7421. All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with the analytical batch to assess potential background contamination in the laboratory. Lead was not detected in the method blank (Table 3-1). The results of this analysis indicate that no significant contribution of metals from handling, preparation, or analyses occurred in the laboratory.

Matrix Spike Results—One sample was spiked in duplicate for lead to assess matrix effects on metals recovery. The spike recoveries were within laboratory control limits for both MS and MSD recoveries. The MSD results demonstrate excellent method precision. The MS and MSD recoveries and calculated RPD values are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample was analyzed with the analytical batch. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. Lead was recovered within the laboratory control limits for the LCS and LCS duplicate samples (Tables 3-4 and 3-5). A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Analytical Spike—One sample digestate was spiked prior to analyses by graphite furnace atomic absorption. The recovery for this spike was 100%. The analytical spike (AS) recovery demonstrated good accuracy and indicate minimal matrix interferences for this analyses.

Field Duplicate Analysis—One sample was collected in duplicate and submitted to the laboratory for analyses. Lead was not detected above the QAPP reporting limits; consequently, method precision cannot be reliably estimated from these data.

3.5 Alaska Method AK101.0 for Gasoline Range Organics (GRO)

All sample preparation and analyses were performed within method requirements and the project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with each analytical batch to assess potential background contamination in the laboratory. GRO was not detected in the method blanks (Table 3-1). The results of this analysis indicate that no significant contribution of GRO because of handling, preparation, or analyses occurred in the laboratory.

Ambient Blank Sample Results—An ambient blank (see Table 3-1) was analyzed to assess potential background contamination at the site. GRO was not detected in the ambient blank. This result indicates that there was no significant

contaminant contribution from ambient site conditions.

Trip Blank Sample Results—One trip blank was collected and analyzed with the Galena Airport water samples. The trip blank accompanied the samples shipped to the laboratory so that the samples could be monitored for potential contamination during sampling, storage, or transport. GRO were not detected in the trip blank (Table 3-1). The trip blank results indicate no significant contamination of samples from sampling, storage, or transport of the field samples.

Surrogate Recoveries—A surrogate standard (4-bromofluorobenzene) was added to every sample analyzed for GRO. The surrogate recoveries in all field samples were within the method acceptance limits of 50%-150%. The surrogate recovery for the LCS sample was 129%, just above the method acceptance criterion of 60%-120% laboratory-derived quality control samples. The surrogate recoveries for the field, blank, and spiked samples are summarized in Table 3-2. These surrogate recoveries indicate that the analytical systems were in control at the time of sample analysis.

Matrix Spike Results—One sample was selected for spiking with GRO to assess matrix effects on analyte recovery. The percent recovery for the spike sample was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate acceptable method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—An LCS was analyzed in the same analytical batch as the field samples. This sample was processed through the same sample handling procedures as those for the field samples. The result of the LCS analyses estimate method accuracy in a clean matrix. GRO was recovered within the method control limits of 25%-125% for the LCS. The LCS result is given in Table 3-5. A review of the data indicates both acceptable method accuracy and no apparent bias for the analytical systems.

Field Duplicate Analysis—One field sample was collected in duplicate and submitted to the laboratory for analyses. GRO were detected at the same relative concentrations in the field duplicate samples. These results indicate acceptable precision of the field collection and analytical measurement systems. The duplicate pair results and RPD are summarized in Table 3-6.

3.6 Alaska Method AK102.0 for Diesel Range Organics (DRO)

All sample preparation and analyses were performed within method requirements and the project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with each analytical batch to assess potential background contamination in the laboratory. DRO was not detected in the method blanks (Table 3-1). The results of this analysis indicate that no significant contribution of DRO because of handling, preparation, or analyses occurred in the laboratory.

Surrogate Recoveries—A surrogate standard (tetracosane) was added to every sample analyzed for DRO. The surrogate recoveries were not within the method acceptance limits of 60%-120% (for laboratory-derived quality control samples) for two of the method blanks and four LCS, which had recoveries up to 159%. However, the surrogate recoveries for the field samples were within the method acceptance limits of 50%-150% (for field samples). The data from these field samples were used as a screening tool for locating a DRO groundwater plume and the subsequent

placement of monitoring wells. Therefore, these data are useable for the intended purpose.

Additionally, the surrogate was diluted out because of high concentrations of extractable organics in field sample G95-SE-MW-01-01. However, the surrogate recovery in the field duplicate of sample G95-SE-MW-01-01 was within the acceptance criteria. No bias is indicated by these data. The DRO surrogate recoveries for the field samples are summarized in Table 3-2.

Matrix Spike Results—One sample was selected for spiking with DRO to assess matrix effects on analyte recovery. The percent recovery for the DRO spiked sample duplicates were within the method acceptance limits of 60%-120%. The RPD for the MS/MSD pairs demonstrate acceptable method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 3-3 and 3-4.

Laboratory Control Sample Results—Two sets of LCS and LCS duplicate samples were analyzed in the same analytical batches as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. The results of the LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. DRO was recovered within the method acceptance limits for three of the four LCS. One LCS had a recovery of 40%, below the limits of 75%-120%; however, the LCSD was within the control limits. The RPD for LCS/LCSD pairs demonstrate acceptable method precision. The LCS results are summarized in Tables 3-4 and 3-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—Two field samples were collected in duplicate and submitted to the laboratory for analyses. DRO were detected at the same relative concentrations in the field duplicate at location SE-GP-01. The field duplicates from location SE-MW-01 had an RPD of 51.4. Overall, the results indicate acceptable precision of the field collection and analytical measurement systems. The duplicate pair results and RPD are summarized in Table 3-6.

Table 3-1
Summary of Blank Results for 1995 Galena Water Samples

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
SW6010—ICP Metals						
Aluminum	Method	1	0	0		0.5 mg/L
Antimony	Method	1	0	0		0.4 mg/L
Arsenic	Method	1	0	0		NA
Barium	Method	1	0	0		0.02 mg/L
Beryllium	Method	1	0	0		0.003 mg/L
Cadmium	Method	1	1	0	0.00494 mg/L	0.04 mg/L
Calcium	Method	1	1	0	0.0193 mg/L	1 mg/L
Chromium	Method	1	0	0		0.07 mg/L
Cobalt	Method	1	0	0		0.07 mg/L
Copper	Method	1	0	0		0.06 mg/L
Iron	Method	1	1	0	0.00635 mg/L	0.07 mg/L
Lead	Method	1	0	0		NA
Magnesium	Method	1	0	0		1 mg/L
Manganese	Method	1	1	0	0.00422 mg/L	0.02 mg/L
Molybdenum	Method	1	0	0		0.08 mg/L
Nickel	Method	1	0	0		0.15 mg/L
Potassium	Method	1	0	0		5 mg/L
Selenium	Method	1	0	0		0.08 mg/L
Silver	Method	1	0	0		0.07 mg/L
Sodium	Method	1	1	0	0.0773 mg/L	1 mg/L
Thallium	Method	1	0	0		0.4 mg/L
Vanadium	Method	1	0	0		0.08 mg/L
Zinc	Method	1	0	0		0.02 mg/L
GFAAS Metals						
Lead—SW7421	Method	1	0	0		0.005 mg/L
AK101—Gasoline Range Organics						
GRO	Ambient	1	0	0		50 µg/L
	Method	2	0	0		
	Trip	1	0	0		

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
AK102—Diesel Range Organics						
DRO	Method	3	0	0		100 µg/L
	Equipment	1	0	0		
SW8260—Volatile Organic Compounds						
Acetone	Method	1	0	0		20 µg/L
	Trip	1	1	0	12.5 µg/L	
	Ambient	1	1	0	4.25 µg/L	
Benzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Bromobenzene	Method	1	0	0		1 µg/L
	Ambient	1	0	0		
	Trip	1	0	0		
Bromodichloromethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Bromomethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
2-Butanone (MEK)	Method	1	0	0		2 µg/L
	Trip	1	1	1	3.66 µg/L	
	Ambient	1	0	0		
Carbon disulfide	Method	1	0	0		20 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Carbon tetrachloride	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Chlorobenzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Chloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
2-Chloroethylvinyl ether	Method	1	0	0		2 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Chloroform	Method	1	0	0		10 µg/L
	Trip	1	0	0		
	Ambient	1	1	0	0.147 µg/L	
1-Chlorohexane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Chloromethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Dibromochloromethane	Method	1	0	0		2 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Dibromomethane	Method	1	1	0	0.178 µg/L	1 µg/L
	Trip	1	1	0	0.235 µg/L	
	Ambient	1	1	0	0.222 µg/L	
1,2-Dichlorobenzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,3-Dichlorobenzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,4-Dichlorobenzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
1,1-Dichloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,2-Dichloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,1-Dichloroethene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
cis-1,2-Dichloroethene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
trans-1,2-Dichloroethene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,2-Dichloropropane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
cis-1,3-Dichloropropene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
trans-1,3-Dichloropropene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Ethylbenzene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
2-Hexanone	Method	1	0	0		5 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Methylene chloride	Method	1	0	0		5 µg/L
	Trip	1	0	0		
	Ambient	1	1	0	0.677 µg/L	
4-Methyl-2-pentanone (MIBK)	Method	1	0	0		20 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Styrene	Method	1	0	0		2 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,1,1,2-Tetrachloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,1,2,2-Tetrachloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Tetrachloroethene	Method	1	0	0		1 µg/L
	Trip	1	1	0	0.596 µg/L	
	Ambient	1	1	0	0.663 µg/L	
Toluene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Tribromomethane (Bromoform)	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Trichlorofluoromethane	Method	1	0	0		1 µg/L
	Trip	1	1	0	0.122 µg/L	
	Ambient	1	0	0		
1,1,1-Trichloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
1,1,2-Trichloroethane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Trichloroethene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
1,2,3-Trichloropropane	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Vinyl acetate	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
Vinyl chloride	Method	1	0	0		2 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
para- & meta-Xylenes	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
ortho-Xylene	Method	1	0	0		1 µg/L
	Trip	1	0	0		
	Ambient	1	0	0		
SW8270—Semivolatile Organic Compounds						
Acenaphthene	Method	1	0	0		10 µg/L
Acenaphthylene	Method	1	0	0		10 µg/L
Anthracene	Method	1	0	0		10 µg/L
Benzo(a)anthracene	Method	1	0	0		10 µg/L
Benzo(b)fluoranthene	Method	1	0	0		10 µg/L
Benzo(k)fluoranthene	Method	1	0	0		10 µg/L
Benzo(g,h,i)perylene	Method	1	0	0		10 µg/L
Benzo(a)pyrene	Method	1	0	0		10 µg/L
Benzoic acid	Method	1	0	0		50 µg/L

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Benzyl alcohol	Method	1	0	0		20 µg/L
Butylbenzylphthalate	Method	1	0	0		10 µg/L
bis(2-Chloroethoxy)methane	Method	1	0	0		10 µg/L
bis(2-Chloroethyl)ether	Method	1	0	0		10 µg/L
bis(2-Chloroisopropyl)ether	Method	1	0	0		10 µg/L
bis(2-Ethylhexyl)phthalate	Method	1	0	0		10 µg/L
4-Bromophenyl phenyl ether	Method	1	0	0		10 µg/L
p-Chloroaniline	Method	1	0	0		20 µg/L
4-Chloro-3-methylphenol	Method	1	0	0		20 µg/L
2-Chloronaphthalene	Method	1	0	0		10 µg/L
2-Chlorophenol	Method	1	0	0		10 µg/L
4-Chlorophenylphenyl ether	Method	1	0	0		10 µg/L
Chrysene	Method	1	0	0		10 µg/L
Dibenzo(a,h)anthracene	Method	1	0	0		10 µg/L
Dibenzofuran	Method	1	0	0		10 µg/L
Dibutylphthalate	Method	1	0	0		10 µg/L
1,2-Dichlorobenzene	Method	1	0	0		10 µg/L
1,3-Dichlorobenzene	Method	1	0	0		10 µg/L
1,4-Dichlorobenzene	Method	1	0	0		20 µg/L
3,3'-Dichlorobenzidine	Method	1	0	0		20 µg/L
2,4-Dichlorophenol	Method	1	0	0		10 µg/L
Diethylphthalate	Method	1	0	0		10 µg/L
Dimethylphthalate	Method	1	0	0		10 µg/L
2,6-Dinitro-2-methylphenol	Method	1	0	0		50 µg/L
2,4-Dinitrophenol	Method	1	0	0		50 µg/L
2,4-Dinitrotoluene	Method	1	0	0		10 µg/L
2,6-Dinitrotoluene	Method	1	0	0		10 µg/L
Di-n-octylphthalate	Method	1	0	0		10 µg/L
Diphenylamine/n-Nitroso DPA	Method	1	0	0		10 µg/L
Fluoranthene	Method	1	0	0		10 µg/L
Fluorene	Method	1	0	0		10 µg/L

Table 3-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Hexachlorobenzene	Method	1	0	0		10 µg/L
Hexachlorobutadiene	Method	1	0	0		10 µg/L
Hexachlorocyclopentadiene	Method	1	0	0		10 µg/L
Hexachloroethane	Method	1	0	0		10 µg/L
Indeno(1,2,3)pyrene	Method	1	0	0		10 µg/L
Isophorone	Method	1	0	0		10 µg/L
2-Methylnaphthalene	Method	1	0	0		10 µg/L
2-Methylphenol	Method	1	0	0		10 µg/L
4-Methylphenol/3-Methylphenol	Method	1	0	0		10 µg/L
Naphthalene	Method	1	0	0		10 µg/L
2-Nitroaniline	Method	1	0	0		50 µg/L
3-Nitroaniline	Method	1	0	0		50 µg/L
4-Nitroaniline	Method	1	0	0		50 µg/L
Nitrobenzene	Method	1	0	0		10 µg/L
2-Nitrophenol	Method	1	0	0		10 µg/L
4-Nitrophenol	Method	1	0	0		50 µg/L
n-Nitrosodipropylamine	Method	1	0	0		10 µg/L
Pentachlorophenol	Method	1	0	0		30 µg/L
Phenanthrene	Method	1	0	0		10 µg/L
Phenol	Method	1	0	0		10 µg/L
Pyrene	Method	1	0	0		10 µg/L
1,2,4-Trichlorobenzene	Method	1	0	0		10 µg/L
2,4,5-Trichlorophenol	Method	1	0	0		50 µg/L
2,4,6-Trichlorophenol	Method	1	0	0		10 µg/L

[a] Number of detects = Number of observations greater than the sample-specific detection limit.
Blank cell = Indicates that all results for the indicated analyte were less than the sample-specific detection limit.

Table 3-2
Summary of Surrogate Recoveries for 1995 Galena Water Samples

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
AK101—Gasoline Range Organics						
4-Bromofluorobenzene						
Normal Samples	4	97.5	9.26	0	0	50-150 [a]
Field Dups	1	133	NC	0	0	50-150 [a]
LCS	1	129	NC	0	1	60-120 [a]
MS	2	114	NC	0	0	50-150 [a]
Method Blanks	2	107	NC	0	0	60-120 [a]
Trip Blanks	1	73.0	NC	0	0	60-120 [a]
Ambient Blanks	1	97.0	NC	0	0	60-120 [a]
AK102—Diesel Range Organics						
Tetracosane						
Normal Samples	14	114	22.8	0	0	50-150 [a]
Field Dups	1	97.5	NC	0	0	50-150 [a]
LCS	4	147	10.6	0	4	60-120 [a]
MS	2	111	NC	0	0	50-150 [a]
Method Blanks	3	117	25.3	0	2	60-120 [a]
Equipment Blanks	1	110	NC	0	0	60-120 [a]
SW8260—Volatile Organics						
1,4-Bromofluorobenzene-d						
Normal Samples	4	98.0	2.16	0	0	84-116
Field Dups	1	101	NC	0	0	84-116
LCS	2	99.0	NC	0	0	84-116
MS	2	99.5	NC	0	0	84-116
Method Blanks	1	100	NC	0	0	84-116
Trip Blanks	1	100	NC	0	0	84-116
Ambient Blanks	1	101	NC	0	0	84-116
Toluene-d_8						
Normal Samples	4	96.8	0.96	0	0	81-115
Field Dups	1	98.0	NC	0	0	81-115
LCS	2	98.5	NC	0	0	81-115
MS	2	97.0	NC	0	0	81-115
Method Blanks	1	98.0	NC	0	0	81-115
Trip Blanks	1	96.0	NC	0	0	81-115
Ambient Blanks	1	98.0	NC	0	0	81-115

Table 3-2
(Continued)

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
1,2-Dichloroethane-d_4						
Normal Samples	4	93.0	6.88	0	0	83-121
Field Dups	1	97.0	NC	0	0	83-121
LCS	2	89.5	NC	0	0	83-121
MS	2	89.0	NC	0	0	83-121
Method Blanks	1	84.0	NC	0	0	83-121
Trip Blanks	1	90.0	NC	0	0	83-121
Ambient Blanks	1	88.0	NC	0	0	83-121
SW8270—Semivolatile Organics						
2-Fluorobiphenyl						
Normal Samples	4	94.0	4.69	0	0	43-116
Field Dups	1	98.0	NC	0	0	43-116
LCS	3	87.0	10.4	0	0	43-116
MS	2	102	NC	0	0	43-116
Method Blanks	1	94.0	NC	0	0	43-116
2-Fluorophenol						
Normal Samples	4	62.3	4.65	0	0	31-100
Field Dups	1	68	NC	0	0	31-100
LCS	3	63.7	2.08	0	0	31-100
MS	2	66.0	NC	0	0	31-100
Method Blanks	1	65.0	NC	0	0	31-100
Nitrobenzene-d_5						
Normal Samples	4	93.3	4.11	0	0	45-114
Field Dups	1	100	NC	0	0	45-114
LCS	3	93.7	3.06	0	0	45-114
MS	2	97.5	NC	0	0	45-114
Method Blanks	1	97.0	NC	0	0	45-114
Phenol-d_5						
Normal Samples	4	47.0	3.16	0	0	28-122
Field Dups	1	50.0	NC	0	0	28-122
LCS	3	50.3	2.52	0	0	28-122
MS	2	50.0	NC	0	0	28-122
Method Blanks	1	47.0	NC	0	0	28-122

Table 3-2
(Continued)

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Terphenyl-d_{14}						
Normal Samples	4	109	3.16	0	0	66-122
Field Dups	1	120	NC	0	0	66-122
LCS	3	113	4.16	0	0	66-122
MS	2	117	NC	0	0	66-122
Method Blanks	1	118	NC	0	0	66-122
2,4,6-Tribromophenol						
Normal Samples	4	109	4.08	0	0	26-123
Field Dups	1	116	NC	0	0	26-123
LCS	3	107	4.93	0	0	26-123
MS	2	114	NC	0	0	26-123
Method Blanks	1	110	NC	0	0	26-123

[a] Limits stated in the May 6, 1994 AK101 and AK102 method updates.

Table 3-3
Summary of Matrix Spike Sample Results for 1995 Galena Water Samples

Parameter/Analyte	Number of Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
SW6010—ICPES Metals						
Aluminum	2	94.0	NC	0	0	75-125
Antimony	2	107	NC	0	0	75-125
Arsenic	2	89.0	NC	0	0	75-125
Barium	2	92.5	NC	0	0	75-125
Beryllium	2	97.5	NC	0	0	75-125
Cadmium	2	92.0	NC	0	0	75-125
Calcium	2	77.5	NC	1	0	75-125
Chromium	2	90.5	NC	0	0	75-125
Cobalt	2	89.5	NC	0	0	75-125
Copper	2	93.5	NC	0	0	75-125
Iron	2	95.0	NC	0	0	75-125
Lead	2	93.0	NC	0	0	75-125
Magnesium	2	92.0	NC	0	0	75-125
Manganese	2	91.0	NC	0	0	75-125
Molybdenum	2	86.5	NC	0	0	75-125
Nickel	2	91.0	NC	0	0	75-125
Potassium	2	93.5	NC	0	0	75-125
Selenium	2	83.0	NC	0	0	75-125
Silver	2	91.5	NC	0	0	75-125
Sodium	2	96.5	NC	0	0	75-125
Thallium	2	84.0	NC	0	0	75-125
Vanadium	2	92.0	NC	0	0	75-125
Zinc	2	94.0	NC	0	0	75-125
GFAAS Metals						
Lead—SW7421	2	94.0	NC	0	0	75-125
AK101—Gasoline Range Organics						
GRO	2	95.0	NC	0	0	60-120 [a]

Table 3-3
(Continued)

Parameter/Analyte	Number of Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
AK102—Diesel Range Organics						
DRO	2	128	NC	0	1	60-120 [a]
SW8260—Volatile Organic Compounds						
Benzene	2	94.5	NC	0	0	74-132
Chlorobenzene	2	105	NC	0	0	73-119
1,1-Dichloroethene	2	70.5	NC	0	0	51-133
Toluene	2	98.5	NC	0	0	81-121
Trichloroethene	2	89.0	NC	0	0	73-117
SW8270—Semivolatile Organic Compounds						
Acenaphthene	2	100	NC	0	0	47-145
4-Chloro-3-methylphenol	2	96.0	NC	0	0	22-147
2-Chlorophenol	2	93.0	NC	0	0	23-134
1,4-Dichlorobenzene	2	95.0	NC	0	0	20-124
2,4-Dinitrotoluene	2	104	NC	0	0	39-139
N-Nitrosodipropylamine	2	109	NC	0	0	D-230
4-Nitrophenol	2	35.0	NC	0	0	D-132
Pentachlorophenol	2	107	NC	0	0	14-176
Phenol	2	39.0	NC	0	0	5-112
Pyrene	2	105	NC	0	0	52-115
1,2,4-Trichlorobenzene	2	101	NC	0	0	44-142

[a] Limits specified in the May 6, 1994 AK101 and AK102 method updates.

Table 3-4
Summary of Duplicates Results for 1995 Galena Water Samples

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
SW6010—ICP Metals							
Aluminum	LCS	1	2.13	NC	0	93-95	20
	MS	1	2.13	NC	0	93-95	20
Antimony	LCS	1	13.1	NC	0	100-114	20
	MS	1	12.2	NC	0	100-113	20
Arsenic	LCS	1	4.26	NC	0	92-96	20
	MS	1	11.2	NC	0	84-94	20
Barium	LCS	1	1.05	NC	0	95-96	20
	MS	1	3.24	NC	0	91-94	20
Beryllium	LCS	1	1.01	NC	0	99-100	20
	MS	1	3.08	NC	0	96-99	20
Cadmium	LCS	1	1.05	NC	0	95-96	20
	MS	1	2.17	NC	0	91-93	20
Calcium	LCS	1	0.00	NC	0	95	20
	MS	1	65.8	NC	1	52-103	20
Chromium	LCS	1	2.11	NC	0	94-96	20
	MS	1	3.31	NC	0	89-92	20
Cobalt	LCS	1	2.13	NC	0	93-95	20
	MS	1	1.12	NC	0	89-90	20
Copper	LCS	1	1.04	NC	0	96-97	20
	MS	1	1.07	NC	0	93-94	20
Iron	LCS	1	1.02	NC	0	98-99	20
	MS	1	2.11	NC	0	94-96	20
Lead	LCS	1	2.22	NC	0	89-91	20
	MS	1	6.45	NC	0	90-96	20
Magnesium	LCS	1	1.05	NC	0	95-96	20
	MS	1	6.52	NC	0	89-95	20
Manganese	LCS	1	1.04	NC	0	96-97	20
	MS	1	2.20	NC	0	90-92	20
Molybdenum	LCS	1	1.10	NC	0	90-91	20
	MS	1	3.47	NC	0	85-88	20

Table 3-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
Nickel	LCS	1	1.06	NC	0	94-95	20
	MS	1	2.20	NC	0	90-92	20
Potassium	LCS	1	2.06	NC	0	96-98	20
	MS	1	1.07	NC	0	93-94	20
Selenium	LCS	1	3.35	NC	0	88-91	20
	MS	1	19.3	NC	0	75-91	20
Silver	LCS	1	0.00	NC	0	94	20
	MS	1	3.28	NC	0	90-93	20
Sodium	LCS	1	3.05	NC	0	97-100	20
	MS	1	3.11	NC	0	95-98	20
Thallium	LCS	1	2.00	NC	0	99-101	20
	MS	1	11.9	NC	0	79-89	20
Vanadium	LCS	1	1.06	NC	0	94-95	20
	MS	1	2.17	NC	0	91-93	20
Zinc	LCS	1	0.00	NC	0	96	20
	MS	1	2.13	NC	0	93-95	20
GFAAS Metals							
Lead—SW7421	LCS	1	2.17	NC	0	91-93	20
	MS	1	0.00	NC	0	94	20
AK101—Gasoline Range Organics							
GRO	MS	1	10.5	NC	0	90-100	20 [a]
AK102—Diesel Range Organics							
DRO	LCS	2	13.8	NC	0	70-108	20 [a]
	MS	1	11.8	NC	0	120-135	20 [a]
SW8260—Volatile Organic Compounds							
Acetone	LCS	1	11.2	NC	0	42-47	NS
Benzene	LCS	1	0.00	NC	0	101	NS
	MS	1	5.29	NC	0	92-97	60
Bromodichloromethane	LCS	1	3.85	NC	0	102-106	NS
Bromomethane	LCS	1	17.6	NC	0	88-105	NS
2-Butanone (MEK)	LCS	1	5.61	NC	0	52-55	NS
Carbon disulfide	LCS	1	19.1	NC	0	90-109	NS
Carbon tetrachloride	LCS	1	2.17	NC	0	91-93	NS

Table 3-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
Chlorobenzene	LCS	1	5.03	NC	0	97-102	NS
	MS	1	6.70	NC	0	101-108	14
Chloroethane	LCS	1	21.2	NC	0	80-99	NS
2-Chloroethylvinyl ether	LCS	1	11.6	NC	0	89-100	NS
Chloroform	LCS	1	14.2	NC	0	85-98	NS
Chloromethane	LCS	1	16.9	NC	0	81-96	NS
Dibromochloromethane	LCS	1	2.04	NC	0	97-99	NS
1,1-Dichloroethane	LCS	1	14.9	NC	0	87-101	NS
1,2-Dichloroethane	LCS	1	8.60	NC	0	89-97	NS
1,1-Dichloroethene	LCS	1	18.4	NC	0	79-95	NS
	MS	1	4.26	NC	0	69-72	23
trans-1,2-Dichloroethene	LCS	1	18.5	NC	0	93-112	NS
1,2-Dichloropropane	LCS	1	4.26	NC	0	92-96	NS
cis-1,3-Dichloropropene	LCS	1	8.33	NC	0	92-100	NS
trans-1,3-Dichloropropene	LCS	1	3.77	NC	0	104-108	NS
Ethylbenzene	LCS	1	4.78	NC	0	102-107	NS
2-Hexanone	LCS	1	10.4	NC	0	82-91	NS
Methylene chloride	LCS	1	15.8	NC	0	64-75	NS
4-Methyl-2-pentanone	LCS	1	15.1	NC	0	86-100	NS
Styrene	LCS	1	2.96	NC	0	100-103	NS
Tetrachloroethene	LCS	1	11.4	NC	0	91-102	NS
1,1,2,2-Tetrachloroethane	LCS	1	9.05	NC	0	95-104	NS
Toluene	LCS	1	0.00	NC	0	101	NS
	MS	1	5.08	NC	0	96-101	14
Tribromomethane (Bromoform)	LCS	1	4.21	NC	0	93-97	NS
1,1,1-Trichloroethane	LCS	1	17.2	NC	0	85-101	NS
1,1,2-Trichloroethane	LCS	1	5.13	NC	0	95-100	NS
Trichloroethene	MS	1	4.49	NC	0	87-91	13
	LCS	1	2.25	NC	0	88-90	NS
Trichlorofluoromethane	LCS	1	19.1	NC	0	71-86	NS
Vinyl acetate	LCS	1	2.67	NC	0	74-76	NS
Vinyl chloride	LCS	1	19.2	NC	0	80-97	NS
m&p-Xylenes	LCS	1	4.78	NC	0	102-107	NS

Table 3-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
o-Xylene	LCS	1	2.84	NC	0	104-107	NS
SW8270—Semivolatile Organic Compounds							
Acenaphthene	LCS	1	1.92	NC	0	103-105	NS
	MS	1	0.00	NC	0	100	56
Acenaphthylene	LCS	1	0.97	NC	0	103-104	NS
Anthracene	LCS	1	0.94	NC	0	106-107	NS
Benzo(a)anthracene	LCS	1	1.85	NC	0	107-109	NS
Benzo(b)fluoranthene	LCS	1	1.98	NC	0	100-102	NS
Benzo(k)fluoranthene	LCS	1	6.97	NC	0	97-104	NS
Benzo(g,h,i)perylene	LCS	1	2.82	NC	0	105-108	NS
Benzo(a)pyrene	LCS	1	0.00	NC	0	106	NS
Benzoic acid	LCS	1	37.8	NC	0	30-44	NS
Benzyl alcohol	LCS	1	9.09	NC	0	84-92	NS
bis(2-Chloroethoxy)methane	LCS	1	2.82	NC	0	105-108	NS
bis(2-Chloroethyl)ether	LCS	1	6.97	NC	0	97-104	NS
bis(2-Chloroisopropyl)ether	LCS	1	7.91	NC	0	85-92	NS
bis(2-Ethylhexyl)phthalate	LCS	1	0.98	NC	0	102-108	NS
4-Bromophenyl phenyl ether	LCS	1	0.91	NC	0	110-111	NS
Butylbenzyl phthalate	LCS	1	0.00	NC	0	103	NS
4-Chloro-3-methylphenol	LCS	1	0.97	NC	0	103-104	NS
	MS	1	6.25	NC	0	93-99	84
p-Chloroaniline	LCS	1	4.12	NC	0	95-99	NS
2-Chloronaphthalene	LCS	1	1.94	NC	0	102-104	NS
2-Chlorophenol	LCS	1	4.12	NC	0	95-99	NS
	MS	1	4.30	NC	0	91-95	81
4-Chlorophenyl phenyl ether	LCS	1	1.80	NC	0	110-112	NS
Chrysene	LCS	1	0.92	NC	0	108-109	NS
Dibenz(a,h)anthracene	LCS	1	1.87	NC	0	106-108	NS
Dibenzofuran	LCS	1	1.89	NC	0	105-108	NS
Di-n-butylphthalate	LCS	1	1.94	NC	0	102-104	NS
1,2-Dichlorobenzene	LCS	1	5.08	NC	0	96-101	NS
1,3-Dichlorobenzene	LCS	1	6.12	NC	0	95-101	NS

Table 3-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
1,4-Dichlorobenzene	LCS	1	7.11	NC	0	95-102	NS
	MS	1	0.00	NC	0	95	81
3,3'-Dichlorobenzidine	LCS	1	3.92	NC	0	100-104	NS
2,4-Dichlorophenol	LCS	1	1.90	NC	0	104-106	NS
Diethyl phthalate	LCS	1	0.00	NC	0	103	NS
Dimethyl phthalate	LCS	1	0.00	NC	0	112	NS
2,4-Dimethylphenol	LCS	1	2.30	NC	0	86-88	NS
2,6-Dinitro-2-methylphenol	LCS	1	1.59	NC	0	125-127	NS
2,4-Dinitrophenol	LCS	1	0.84	NC	0	118-119	NS
2,4-Dinitrotoluene	LCS	1	2.60	NC	0	114-117	NS
	MS	1	1.92	NC	0	103-105	62
2,6-Dinitrotoluene	LCS	1	0.89	NC	0	112-113	NS
Di-n-octylphthalate	LCS	1	1.92	NC	0	103-105	NS
Diphenylamine (n-NitrosoDPA)	LCS	1	1.09	NC	0	91-92	NS
Fluoranthene	LCS	1	0.91	NC	0	109-110	NS
Fluorene	LCS	1	0.95	NC	0	105-106	NS
Hexachlorobenzene	LCS	1	0.89	NC	0	112-113	NS
Hexachlorobutadiene	LCS	1	5.71	NC	0	102-108	NS
Hexachlorocyclopentadiene	LCS	1	9.79	NC	0	68-75	NS
Hexachloroethane	LCS	1	8.25	NC	0	93-101	NS
Indeno(1,2,3)pyrene	LCS	1	2.79	NC	0	106-109	NS
Isophorone	LCS	1	2.90	NC	0	102-105	NS
2-Methylnaphthalene	LCS	1	2.79	NC	0	106-109	NS
2-Methylphenol	LCS	1	5.59	NC	0	87-92	NS
4-Methylphenol/3-Methylphenol	LCS	1	6.45	NC	0	75-80	NS
Naphthalene	LCS	1	4.88	NC	0	100-105	NS
2-Nitroaniline	LCS	1	1.89	NC	0	105-107	NS
3-Nitroaniline	LCS	1	0.93	NC	0	107-108	NS
4-Nitroaniline	LCS	1	1.92	NC	0	103-105	NS
Nitrobenzene	LCS	1	4.88	NC	0	100-105	NS
2-Nitrophenol	LCS	1	0.92	NC	0	108-109	NS
4-Nitrophenol	LCS	1	0.00	NC	0	41	NS
	MS	1	5.71	NC	0	34-36	124

Table 3-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
n-Nitrosodipropylamine	LCS	1	4.88	NC	0	100-105	NS
	MS	1	0.92	NC	0	108-109	113
Pentachlorophenol	LCS	1	0.96	NC	0	104-105	NS
	MS	1	5.61	NC	0	104-110	86
Phenanthrene	LCS	1	1.87	NC	0	106-108	NS
Phenol	LCS	1	8.16	NC	0	47-51	NS
	MS	1	5.13	NC	0	38-40	76
Pyrene	LCS	1	0.00	NC	0	110	NS
	MS	1	2.87	NC	0	103-106	43
1,2,4-Trichlorobenzene	MS	1	5.71	NC	0	102-108	NS
	LCS	1	0.00	NC	0	101	59
2,4,5-Trichlorophenol	LCS	1	0.91	NC	0	109-110	NS
2,4,6-Trichlorophenol	LCS	1	3.77	NC	0	104-108	NS

[a] Limits specified in the May 6, 1994 AK101 and AK102 method updates.

Table 3-5
Summary of Laboratory Control Sample Results for 1995 Galena Water Samples

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
SW6010—ICPES Metals						
Aluminum	2	94.0	NC	0	0	80-120
Antimony	2	107	NC	0	0	80-120
Arsenic	2	94.0	NC	0	0	80-120
Barium	2	95.5	NC	0	0	80-120
Beryllium	2	99.5	NC	0	0	80-120
Cadmium	2	95.5	NC	0	0	80-120
Calcium	2	95.0	NC	0	0	80-120
Chromium	2	95.0	NC	0	0	80-120
Cobalt	2	94.0	NC	0	0	80-120
Copper	2	96.5	NC	0	0	80-120
Iron	2	98.5	NC	0	0	80-120
Lead	2	90.0	NC	0	0	80-120
Magnesium	2	95.5	NC	0	0	80-120
Manganese	2	96.5	NC	0	0	80-120
Molybdenum	2	90.5	NC	0	0	80-120
Nickel	2	94.5	NC	0	0	80-120
Potassium	2	97.0	NC	0	0	80-120
Selenium	2	89.5	NC	0	0	80-120
Silver	2	94.0	NC	0	0	80-120
Sodium	2	98.5	NC	0	0	80-120
Thallium	2	100	NC	0	0	80-120
Vanadium	2	94.5	NC	0	0	80-120
Zinc	2	96.0	NC	0	0	80-120
GFAAS Metals						
Lead—SW7421	2	92.0	NC	0	0	75-125
AK101—Gasoline Range Organics						
GRO	1	105	NC	0	0	75-125 [a]

Table 3-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
AK102—Diesel Range Organics						
DRO	4	89.0	16.5	1	0	75-125 [a]
SW8640—Volatile Organic Compounds						
Acetone	2	44.5	NC	0	0	3-127
Benzene	2	101	NC	0	0	74-132
Bromodichloromethane	2	104	NC	0	0	64-132
Bromomethane	2	96.5	NC	0	0	46-152
2-Butanone (MEK)	2	53.5	NC	0	0	D-160
Carbon disulfide	2	99.5	NC	0	0	29-223
Carbon tetrachloride	2	92.0	NC	0	0	53-167
Chlorobenzene	2	99.5	NC	0	0	73-119
Chloroethane	2	89.5	NC	0	0	50-154
2-Chloroethylvinyl ether	2	94.5	NC	0	0	NS
Chloroform	2	91.5	NC	0	0	64-130
Chloromethane	2	88.5	NC	0	0	39-135
Dibromochloromethane	2	98.0	NC	0	0	60-122
1,1-Dichloroethane	2	94.0	NC	0	0	65-131
1,2-Dichloroethane	2	93.0	NC	0	0	68-138
1,1-Dichloroethene	2	87.0	NC	0	0	51-133
trans-1,2-Dichloroethene	2	103	NC	0	0	58-144
1,2-Dichloropropane	2	94.0	NC	0	0	77-119
cis-1,3-Dichloropropene	2	96.0	NC	0	0	75-131
trans-1,3-Dichloropropene	2	106	NC	0	0	64-132
Ethylbenzene	2	105	NC	0	0	72-130
2-Hexanone	2	86.5	NC	0	0	58-140
Methylene chloride	2	69.5	NC	0	0	49-151
4-Methyl-2-pentanone	2	93.0	NC	0	0	58-142
Styrene	2	102	NC	0	0	73-131

Table 3-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Tetrachloroethene	2	96.5	NC	0	0	62-124
1,1,2,2,-Tetrachloroethane	2	99.5	NC	0	0	60-134
Toluene	2	101	NC	0	0	81-121
Tribromomethane (Bromoform)	2	95.0	NC	0	0	41-135
1,1,1-Trichloroethane	2	93.0	NC	0	0	58-144
1,1,2-Trichloroethane	2	97.5	NC	0	0	68-122
Trichloroethene	2	89.0	NC	0	0	73-117
Trichlorofluoromethane	1	78.5	NC	0	0	50-142
Vinyl acetate	2	75.0	NC	0	0	35-199
Vinyl chloride	2	88.5	NC	0	0	27-161
m&p-Xylenes	2	105	NC	0	0	74-128
o-Xylene	2	106	NC	0	0	79-125
SW8270—Semivolatile Organic Compounds						
Acenaphthene	3	104	1.00	0	0	47-145
Acenaphthylene	3	101	3.79	0	0	33-145
Anthracene	3	105	3.21	0	0	27-133
Benzo(a)anthracene	3	108	1.00	0	0	33-143
Benzo(b)fluoranthene	3	108	12.7	0	0	24-159
Benzo(k)fluoranthene	3	101	3.51	0	0	11-162
Benzo(g,h,i)perylene	3	110	5.69	0	0	D-219
Benzo(a)pyrene	3	109	4.62	0	0	17-163
Benzoic acid	3	36.3	7.09	0	0	0-294
Benzyl alcohol	3	89.7	4.93	0	0	NS
4-Bromophenyl phenyl ether	3	110	0.58	0	0	53-127
Butylbenzylphthalate	3	104	1.15	0	0	D-152
4-Chloro-3-methylphenol	3	100	6.08	0	0	22-147
p-Chloroaniline	3	93.0	7.21	0	0	55-153

Table 3-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
bis(2-Chloroethyl)ether	3	101	3.79	0	0	12-158
bis(2-Chloroethoxy)methane	3	107	1.53	0	0	33-184
bis(2-Chloroisopropyl)ether	3	91.3	6.03	0	0	36-166
2-Chloronaphthalene	3	102	1.53	0	0	60-118
2-Chlorophenol	3	94.0	5.57	0	0	23-134
4-Chlorophenyl phenyl ether	3	110	2.52	0	0	25-158
Chrysene	3	108	1.53	0	0	17-168
Di-n-octylphthalate	3	108	7.00	0	0	4-146
Dibenz(a,h)anthracene	3	109	3.06	0	0	D-227
Dibenzofuran	3	105	1.53	0	0	67-122
Dibutylphthalate	3	103	1.15	0	0	1-118
1,2-Dichlorobenzene	3	97.7	2.89	0	0	32-129
1,3-Dichlorobenzene	3	97.3	3.21	0	0	D-172
1,4-Dichlorobenzene	3	97.5	4.04	0	0	20-124
3,3'-Dichlorobenzidine	3	99.7	4.51	0	0	D-262
2,4-Dichlorophenol	3	101	7.00	0	0	39-135
Diethylphthalate	3	102	2.31	0	0	20-162
2,4-Dimethylphenol	3	79.7	12.7	0	0	D-112
Dimethylphthalate	3	111	1.73	0	0	D-179
4,6-Dinitro-2-methylphenol	3	122	6.43	0	0	D-181
2,4-Dinitrophenol	3	115	6.66	0	0	D-191
2,4-Dinitrotoluene	3	115	1.53	0	0	39-139
2,6-Dinitrotoluene	3	112	1.00	0	0	50-158
Diphenylamine (n-Nitroso DPA)	3	90.0	2.65	0	0	NS
bis(2-Ethylhexyl)phthalate	3	103	1.00	0	0	8-158
Fluoranthene	3	109	0.58	0	0	26-137
Fluorene	3	103	3.79	0	0	59-121

Table 3-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Hexachlorobenzene	3	112	1.53	0	0	D-152
Hexachlorobutadiene	3	104	3.21	0	0	23-140
Hexachlorocyclopentadiene	3	60.3	19.7	0	0	0-308
Hexachloroethane	3	95.0	5.29	0	0	42-165
Indeno(1,2,3-cd)pyrene	3	111	5.69	0	0	D-171
Isophorone	3	103	1.53	0	0	21-196
2-Methylnaphthalene	3	107	1.53	0	0	37-150
2-Methylphenol	3	86.3	6.03	0	0	29-133
4-Methylphenol/ 3-Methylphenol	3	74.3	6.03	0	0	20-135
N-Nitrosodipropylamine	3	103	2.89	0	0	D-230
Naphthalene	3	103	2.52	0	0	21-133
2-Nitroaniline	3	106	1.15	0	0	40-149
3-Nitroaniline	3	107	1.53	0	0	45-157
4-Nitroaniline	3	103	2.52	0	0	25-162
Nitrobenzene	3	102	2.52	0	0	35-180
2-Nitrophenol	3	105	6.08	0	0	29-182
4-Nitrophenol	3	40.0	1.73	0	0	D-132
Pentachlorophenol	3	101	5.51	1	0	14-176
Phenanthrene	3	107	1.00	0	0	54-120
Phenol	3	47.3	3.51	0	0	5-112
Pyrene	3	110	0.00	0	0	52-115
1,2,4-Trichlorobenzene	3	105	3.06	0	0	44-142
2,4,5-Trichlorophenol	3	105	7.81	0	0	37-121
2,4,6-Trichlorophenol	3	103	6.11	1	0	37-144

[a] Limits stated in the May 6, 1994 AK101 and AK102 method updates.

Table 3-6
Summary of Field Duplicates Results for 1995 Galena Water Samples[a]

Method/Analyte	Number of Pairs	Mean RPD	Number Above Limits	Range of Results	RPD Limits
SW6010—ICP Metals					
Aluminum	1	111	0	0.094-0.318	NS
Barium	1	2.50	0	0.632-0.648	NS
Beryllium	1	66.7	0	0.00197-0.00394	NS
Cadmium	1	47.7	0	0.00523-0.00851	NS
Calcium	1	2.73	1	217-223	NS
Cobalt	1	20.1	0	0.0228-0.0279	NS
Iron	1	10.3	0	22.0-24.4	NS
Magnesium	1	3.09	0	63.7-65.7	NS
Manganese	1	0.96	0	31.2-31.5	NS
Nickel	1	30.0	0	0.0418-0.0309	NS
Potassium	1	16.3	0	5.75-6.77	NS
Sodium	1	0.00	0	11.4-11.4	NS
GFAAS Metals					
AK101—Gasoline Range Organics					
GRO	1	23.5	0	790-1000	NS
AK102—Diesel Range Organics					
DRO	2	29.8	0	5500-10000	NS
SW8260—Volatile Organic Compounds					
Acetone	1	1.52	0	7.86-7.98	NS
Benzene	1	0.69	0	58.1-58.5	NS
Dibromomethane	1	32.9	0	0.559-0.779	NS
1,2-Dichloroethane	1	2.84	0	1.04-1.07	NS
Ethylbenzene	1	2.34	0	21.1-21.6	NS
Tetrachloroethene	1	65.4	0	1.74-3.43	NS
Toluene	1	0.17	0	6.00-6.01	NS
m&p-Xylenes	1	1.06	0	28.1-28.4	NS
o-Xylene	1	0.92	0	10.8-10.9	NS
SW8270—Semivolatile Organic Compounds					
Fluorene	1	16.4	0	1.29-1.52	NS
2-Methylnaphthalene	1	7.87	0	98.9-107	NS
Naphthalene	1	10.0	0	80.7-89.2	NS

[a] Only those analytes detected in the sample and its field duplicate at concentrations greater than the sample-specific detection limits are included in this table.

Section 4
QUALITY CONTROL RESULTS FOR GALENA AIRPORT SOIL SAMPLE ANALYSES

QC procedures and activities implemented during this program provide a basis for estimating data precision and accuracy. QC procedures associated with investigative soil samples included the analysis of laboratory and field blanks, matrix and surrogate spikes, and LCSs. Results of these analyses are discussed in this section.

4.1 Volatile Organics by SW-846 Method 8240

All sample analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Sample Results—Method blanks (see Table 4-1) were analyzed with each analytical batch to assess potential background contamination in the laboratory. The method blank samples analyzed did not have any target analytes reported at or above the stated detection limits, except for methylene chloride in one of the three method blanks. This method blank was run with a sample diluted to bring other target analytes (BTEX) within the calibration range. The diluted sample results and associated blank were not used for the quantification of methylene chloride in the sample; consequently, this methylene chloride "hit" does not affect data usability. The concentrations reported for the analytes in the other two method blanks were within the acceptance criteria specified in the QAPP. Overall, the results of these analyses indicate that no significant contribution from handling, preparation, or analyses occurred in the laboratory.

Equipment Blank Results—Two equipment blanks were collected and analyzed for volatile organics. The equipment blanks analyzed had methylene chloride, 1,2-dichloromethane, chloroform, and acetone detected at concentrations near the stated reporting limits (Table 4-1). These results are similar to the analytical results for the method blanks or less than the QAPP-specific limits. Consequently, these analyses indicate that the cleaning process in the field was adequate and did not artificially introduce significant levels of contaminants to the field samples.

Surrogate Recoveries—Three surrogate standards (toluene-d8, 1-bromo-4-fluorobenzene, and 1,2-dichloroethane-d4) were added to every sample analyzed for volatile organics. The surrogates were used to monitor purging efficiency and to provide an estimate of analytical measurement accuracy. Two of the surrogate recoveries were slightly below the acceptance criteria for sample G95-13-SS-05. The sample was reanalyzed and the two surrogates were again slightly below the acceptance limits indicating a matrix interference. The data indicate that the data for this sample may be biased about 25% low. The surrogate recoveries for the remaining field samples were within the control limits for 1,4-bromofluorobenzene (74%-121%), 1,2-dichloroethane-d4 (70%-121%), and toluene-d8 (81%-117%). The surrogate recoveries for the field samples, blanks, and spikes are listed in Table 4-2. Overall, the surrogate recoveries indicate that the analytical systems were in control at the time of sample analysis.

Please note that due to obvious matrix interferences, the recovery for at least one internal standard was low for samples G95-13-SS-05, G95-SE-SB-02-01, and G95-SE-SB-03-01. Analytes which were quantitated using the affected internal standard(s) are flagged with an "X."

Matrix Spike Results—Three samples were selected for spiking (in duplicate) with five VOCs to assess matrix effects on analyte recovery. The samples were spiked with benzene, chlorobenzene, 1,1-dichloroethene, toluene, and trichloroethene. The recoveries (63.2% and 63.8%) for trichloroethene in sample G95-SE-MW-02-02 were slightly below the acceptance criterion of 71%-157%. The percent recovery for the remaining spike compounds was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate excellent method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample were analyzed in the same analytical batch as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. The results of the LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. The LCS results analyzed with the soil samples are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

4.2 Semivolatile Organics by SW-846 Method 8270

All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—Method blanks were analyzed with each analytical batch to assess potential background contamination in the laboratory. Semivolatile compounds were not detected in the method blanks. The results of these analyses indicate that no significant contaminant contribution from handling, preparation, or analyses occurred in the laboratory. A summary of the blanks analyzed with the field samples is provided in Table 4-1.

Equipment Blank Results—Two equipment blanks (see Table 4-1) were collected and analyzed for semivolatile organics. Semivolatile compounds were not detected in the equipment blanks. Consequently, these analyses indicate that the cleaning process in the field was adequate and did not artificially introduce contaminants to the field samples.

Surrogate Recoveries—Six surrogate standards were added to every sample analyzed for semivolatile organics. The surrogates spiked in the samples were 2-fluorobiphenyl, 2-fluorophenol, nitrobenzene-d5, phenol-d5, terphenyl-d14, and 2,4,6-tribromophenol. The surrogate recoveries were within the laboratory control limits for 2-fluorobiphenyl (54%-115%), 2-fluorophenol (46%-119%), nitrobenzene-d5 (49%-120%), phenol-d5 (50%-122%), terphenyl-d14 (53%-133%), and 2,4,6-tribromophenol (19%-122%). The surrogate recoveries for the field samples, blanks, and spikes are summarized in Table 4-2. These surrogate recoveries indicate that the analytical systems were in control at the time of sample analysis.

Due to obvious matrix interferences, the recovery for one internal standard was low for sample G95-13-SS-05. Analytes which were quantitated using the affected internal standard are flagged with an "X."

Matrix Spike Results—Two samples were selected for spiking (in duplicate) with 11 semivolatile compounds to assess matrix effects on

analyte recovery. The percent recovery for all of the spike compounds was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate excellent method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample were analyzed with each analytical batch of field samples. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. All the RPD for the LCS and LCS duplicate samples were within the laboratory control limits. The LCS results are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

4.3 Organochlorine Pesticides and Polychlorinated Biphenyls (PCBs) by SW-846 Method 8080

All sample preparation and analyses were performed within the EPA-and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with the analytical batch to assess potential background contamination in the laboratory. The method blank analyzed with the soil samples had low levels (see Table 4-1) of aldrin (0.566 µg/kg) and endrin (1.52 µg/kg). These concentrations are well below the QAPP reporting limits of 3 µg/kg aldrin and 4 µg/kg endrin; therefore, the data are acceptable.

Equipment Blank Results—One equipment blank (see Table 4-1) was collected and analyzed for the target analytes. No target analytes were detected in the equipment blank. Consequently, these analyses indicate that the cleaning process in the field was adequate and did not artificially introduce significant contaminants to the field samples.

Surrogate Recoveries—Two surrogate standards were added to every sample analyzed for organochlorine pesticides and PCBs. The surrogates spiked in the samples were dibutylchlorendate and 2,4,5,6-tetrachloro-m-xylene. All of the surrogate recoveries were within the specified tolerances. A summary of surrogate recoveries in the field samples, blanks, and spikes are summarized in Table 4-2. These results indicate that the analytical systems were in control at the time of sample analysis.

Matrix Spike Results—One sample was selected for spiking (in duplicate) with six organochlorine pesticides to assess matrix effects on analyte recovery. The sample was spiked with aldrin, gamma-BHC, 4,4'-DDT, dieldrin, endrin, and heptachlor. The percent recoveries were acceptable for the MS and MSD recoveries. The RPD for the MS/MSD recoveries indicate acceptable method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—An LCS and LCS duplicate sample were analyzed in the same analytical batch as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. All the RPD for the LCS and LCS duplicate samples were within the

laboratory control limits, except for endrin aldehyde. The LCS results are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

4.4 Inductively Coupled Plasma Emission Spectroscopy (ICPES) Metals Analyses

Soil samples were collected and analyzed for aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc by SW-846 Method 6010. All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed the analytical batch to assess potential background contamination in the laboratory. The method blank contained low levels of beryllium, calcium, iron, and sodium, which were all at concentrations below the QAPP reporting criteria; consequently, the method blank results were acceptable (Table 4-1). However, the results for these analytes in the field samples which were within a factor of five of the concentrations found in the method blank were flagged with a 'B' to indicate potential blank contamination. Overall, the results of these analyses indicate that no significant contribution from handling, preparation, or analyses occurred in the laboratory.

Equipment Blank Results—One equipment blank (see Table 4-1) was collected and analyzed for the target analytes. With the exception of iron, which was present in the equipment blank at a concentration of 0.104 µg/L, no target analytes were detected at concentrations above the QAPP-specified reporting limits. Consequently, these analyses indicate that the cleaning process in the field was adequate and did not artificially introduce contaminants to the field samples.

Matrix Spike Results—One sample was selected for spiking with the target compounds to assess matrix effects on metals recovery. The majority of the spike compound recoveries were within laboratory control limits for the MS and MSD. The MSD results demonstrate excellent method precision. The LCS/LCS duplicate samples were in control for each batch when the percent recoveries or the RPD for the MS/MSD samples were not within the control limits. The MS and MSD recoveries and calculated RPD values are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—A solid and a liquid LCS and LCS duplicate sample were analyzed with each analytical batch. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. Antimony recovery in the LCSD was 191%, while the recovery in the LCS was within the recovery limits of 80%-120%. The recoveries for selenium (71% and 75%) were below the accepted limits, indicating a potential low bias of up to 25% for selenium. Selenium was also analyzed using SW-846 Method 7740. The Method 7740 results will be used in the reporting and data evaluation tasks. The remaining target analytes were all recovered within the laboratory control limits for the solid LCS and LCS duplicate samples. Generally, the RPD for the LCS and LCS duplicate samples were within the laboratory control limits. The solid LCS results are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy (except for selenium as discussed earlier) and no significant bias was introduced by the analytical systems.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

4.5 Furnace Metals Analyses

Samples were collected and analyzed for arsenic by SW-846 Method 7060, lead by SW-846 Method 7421, and selenium by SW-846 Method 7740. All sample preparation and analyses were performed within the EPA- and project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with each analytical batch to assess potential background contamination in the laboratory. The method blanks reported did not have arsenic, lead, or selenium detected above the QAPP-specified limits. The individual measurement results for the method blanks are summarized in Table 4-1. The results of these analyses indicate that no significant contribution of metals from handling, preparation, or analyses occurred in the laboratory.

Equipment Blank Results—At least one equipment blank (see Table 4-1) was collected and analyzed for arsenic, lead, and selenium by graphite furnace. The target analytes concentrations were all less than the stated detection limits. Consequently, the analyses indicate that the field decontamination procedures were appropriate and did not artificially introduce contaminants to the field samples.

Matrix Spike Results—One sample for arsenic and selenium, and two samples for lead were selected for spiking with the target compounds to assess matrix effects on metals recovery. The spike compounds were within laboratory control limits for both MS and MSD recoveries. The MSD results demonstrate excellent method precision. The MS and MSD recoveries and calculated RPD values are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—LCS and LCS duplicate samples were analyzed with each analytical batch. These samples were processed through the same sample handling procedures as those for the field samples. Results of LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. All of the target analytes were recovered within the laboratory control limits for the LCS and LCS duplicate samples. All the RPD for the LCS and LCS duplicate samples were within the laboratory control limits. The LCS results are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy and no significant bias for the analytical systems.

Analytical Spikes—Two lead, one arsenic, and one selenium sample digestates were spiked prior to analyses by graphite furnace atomic absorption. The AS recoveries were 92% for the arsenic AS, 100% for the selenium AS, and 86% for one of the lead AS. These AS recoveries demonstrate good method accuracy and indicates minimal matrix interferences. One of the lead AS recoveries was 84%, just below the laboratory acceptance criteria of 85%. Therefore, all the samples in this affected batch were analyzed by the method of standard additions to minimize potential matrix effects.

Affected samples were G95-SE-MW-02-02, G95-SE-MW-03-02, G95-SE-MW-04-02, and G95-SS-01. The lead results for these samples have been flagged with an "S" to indicate that they were determined using MSA.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analyses. Consequently, sampling and analytical precision can not be estimated.

4.6 Alaska Method AK101.0 for Gasoline Range Organics

All sample preparation and analyses were performed within method requirements and the project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with each analytical batch to assess potential background contamination in the laboratory. GRO was not detected in the method blank (see Table 4-1). The results of this analysis indicate that no significant contaminant contribution of GRO from handling, preparation, or analyses occurred in the laboratory.

Equipment Blank Results—Two equipment blanks (see Table 4-1) were collected and analyzed for GRO. GRO was not detected in the equipment blanks. These analyses would indicate that the cleaning process in the field was adequate and did not artificially introduce significant levels of GRO to the field samples.

Surrogate Recoveries—A surrogate standard (trifluorotoluene) was added to every sample analyzed for GRO. The surrogate recovery in the LCS (132%) was above the method criteria of 60%-120% for laboratory-derived QC samples. The surrogate for one of 16 field samples (159% for sample G95-SE-SB-01-02) was above the method criteria of 50%-150% for field samples. The surrogate recoveries for all the remaining field samples, blanks, and spikes were all within the method acceptance limits and are summarized in Table 4-2. No bias is indicated by these data.

Matrix Spike Results—Two samples were selected for spiking with GRO to assess matrix effects on analyte recovery. The percent recovery for the GRO was acceptable for both MS and MSD recoveries. The RPD for the MS/MSD pairs demonstrate acceptable method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—An LCS sample was analyzed in the same analytical batch as the field samples. This sample was processed through the same sample handling procedures as those for the field samples to estimate method accuracy in a clean matrix. GRO was recovered within the laboratory control limits for the LCS sample. The LCS results are summarized in Table 4-5. This data indicate acceptable method accuracy.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

4.7 Alaska Method AK102.0 for Diesel Range Organics

All sample preparation and analyses were performed within method requirements and the project QAPP-specified maximum holding time requirements.

Method Blank Results—A method blank was analyzed with each analytical batch to assess potential background contamination in the laboratory. DRO was not detected in the method blanks. The results of this analysis indicate that no significant contaminant contribution of DRO from handling, preparation, or analyses occurred in the laboratory.

Equipment Blank Results—Two equipment blanks were collected and analyzed for DRO. DRO was not detected in the equipment blanks. The equipment blank results are listed in Table 4-1. These analyses would indicate that the cleaning process in the field was adequate and did not artificially introduce significant levels of DRO to the field samples.

Surrogate Recoveries—A surrogate standard (tetracosane) was added to every sample analyzed for DRO. The surrogate recoveries for one of the two method blanks and one of the four LCS samples were above the method criteria for laboratory QC samples. Surrogate recoveries for two of four matrix spikes and two of 16 field samples were above the method criteria of 50% to 150% for field samples. The high recoveries in the affected field samples were attributed to matrix interferences by the analyst.

Additionally, the surrogated was diluted out because of high concentrations of extractable organics in field samples G95-SE-SB-01-02 and G95-SB-03-02. No bias is indicated by these data. The DRO surrogate recoveries for the field samples, spikes, and blanks are summarized in Table 4-2.

Matrix Spike Results—Two samples were selected for spiking with DRO to assess matrix effects on analyte recovery. The percent recovery for the DRO spike samples were all within the QAPP limits of 60%-120%. The RPD for these MS/MSD pairs demonstrate acceptable method precision. The percent recoveries and RPD for the MS and MSD samples are summarized in Tables 4-3 and 4-4.

Laboratory Control Sample Results—LCS and LCS duplicate samples were analyzed in the same analytical batches as the field samples. These samples were processed through the same sample handling procedures as those for the field samples. The results of the LCS/LCS duplicate analyses estimate method accuracy and precision in a clean matrix. The DRO was recovered within the laboratory control limits of 75%-125% for the LCS/LCS duplicate pair. The LCS results are summarized in Tables 4-4 and 4-5. A review of these data indicates both acceptable method accuracy and no significant bias was introduced by the analytical systems.

Field Duplicate Analysis—Field samples were not collected in duplicate and submitted to the laboratory for analysis. Consequently, sampling and analytical precision cannot be estimated.

Table 4-1
Summary of Blank Results for 1995 Galena Soil Samples

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
SW6010—ICP Metals						
Aluminum	Method	1	0	0		50 mg/kg
	Equipment	1	0	0		0.5 mg/L
Antimony	Method	1	0	0		40 mg/kg
	Equipment	1	0	0		0.4 mg/L
Arsenic	Method	1	0	0		60 mg/kg
	Equipment	1	0	0		0.6 mg/L
Barium	Method	1	0	0		2 mg/kg
	Equipment	1	0	0		0.02 mg/L
Beryllium	Method	1	1	0	0.0369 mg/kg	0.3 mg/kg
	Equipment	1	0	0		0.003 mg/L
Cadmium	Method	1	0	0		4 mg/kg
	Equipment	1	0	0		0.04 mg/L
Calcium	Method	1	1	0	7.68 mg/kg	100 mg/kg
	Equipment	1	1	0	0.0683 mg/L	1 mg/L
Chromium	Method	1	0	0		7 mg/kg
	Equipment	1	1	0	0.00599 mg/L	0.07 mg/L
Cobalt	Method	1	0	0		7 mg/kg
	Equipment	1	0	0		0.07 mg/L
Copper	Method	1	0	0		6 mg/kg
	Equipment	1	0	0		0.06 mg/L
Iron	Method	1	1	0	1.16 mg/kg	7 mg/kg
	Equipment	1	1	0	0.104 mg/L	0.07 mg/L
Lead	Method	1	0	0		50 mg/kg
	Equipment	1	1	0	0.0237 mg/L	0.5 mg/L
Magnesium	Method	1	0	0		100 mg/kg
	Equipment	1	0	0		1 mg/L
Manganese	Method	1	0	0		2 mg/kg
	Equipment	1	1	0	0.00525 mg/L	0.02 mg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Molybdenum	Method	1	0	0		8 mg/kg
	Equipment	1	1	0	0.0134 mg/L	0.08 mg/L
Nickel	Method	1	0	0		15 mg/kg
	Equipment	1	0	0		0.15 mg/L
Potassium	Method	1	0	0		100 mg/kg
	Equipment	1	0	0		5 mg/L
Selenium	Method	1	0	0		80 mg/kg
	Equipment	1	0	0		0.08 mg/L
Silver	Method	1	0	0		7 mg/kg
	Equipment	1	0	0		0.07 mg/L
Sodium	Method	1	1	0	9.78 mg/kg	100 mg/kg
	Equipment	1	1	0	0.0756 mg/L	1 mg/L
Thallium	Method	1	0	0		40 mg/kg
	Equipment	1	0	0		0.4 mg/L
Vanadium	Method	1	0	0		8 mg/kg
	Equipment	1	0	0		0.08 mg/L
Zinc	Method	1	0	0		2 mg/kg
	Equipment	1	1	0	0.0100 mg/L	0.02 mg/L
GFAAS Metals						
Arsenic—SW7060	Method	1	0	0		0.4 mg/kg
	Equipment	1	0	0		0.004 mg/L
Lead—SW7421	Method	2	1	0	0.109 mg/kg	0.5 mg/kg
	Equipment	2	0	0		0.005 mg/L
Selenium—SW7740	Method	1	0	0		0.5 mg/kg
	Equipment	1	0	0		0.005 mg/L
AK101—Gasoline Range Organics						
GRO	Method	2	0	0		1.0 mg/kg
	Equipment	2	0	0		50 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
AK102—Diesel Range Organics						
DRO	Method	2	0	0		10 mg/kg
	Equipment	2	0	0		100 µg/L
SW8080—Pesticides and PCBs						
Aldrin	Method	1	1	0	0.566 µg/kg	3 µg/kg
	Equipment	1	0	0		0.04 µg/L
alpha-BHC	Method	1	0	0		2 µg/kg
	Equipment	1	0	0		0.03 µg/L
beta-BHC	Method	1	0	0		5 µg/kg
	Equipment	1	0	0		0.06 µg/L
delta-BHC	Method	1	0	0		1.6 µg/kg
	Equipment	1	0	0		0.09 µg/L
gamma-BHC	Method	1	0	0		3 µg/kg
	Equipment	1	0	0		0.04 µg/L
Chlordane	Method	1	0	0		9 µg/kg
	Equipment	1	0	0		0.14 µg/L
4,4'-DDD	Method	1	0	0		7 µg/kg
	Equipment	1	0	0		0.11 µg/L
4,4'-DDE	Method	1	0	0		3 µg/kg
	Equipment	1	0	0		0.04 µg/L
4,4'-DDT	Method	1	0	0		8 µg/kg
	Equipment	1	0	0		0.12 µg/L
Dieldrin	Method	1	0	0		10 µg/kg
	Equipment	1	0	0		0.20 µg/L
Endosulfan I	Method	1	0	0		9 µg/kg
	Equipment	1	0	0		0.14 µg/L
Endosulfan II	Method	1	0	0		3 µg/kg
	Equipment	1	0	0		0.04 µg/L
Endosulfan sulfate	Method	1	0	0		40 µg/kg
	Equipment	1	0	0		0.66 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Endrin	Method	1	1	0	1.52 µg/kg	4 µg/kg
	Equipment	1	0	0		0.06 µg/L
Endrin aldehyde	Method	1	0	0		20 µg/kg
	Equipment	1	0	0		0.23 µg/L
Heptachlor	Method	1	0	0		2 µg/kg
	Equipment	1	0	0		0.03 µg/L
Heptachlor epoxide	Method	1	0	0		60 µg/kg
	Equipment	1	0	0		0.83 µg/L
Methoxychlor	Method	1	0	0		100 µg/kg
	Equipment	1	0	0		1.8 µg/L
PCB-1016	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1221	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1232	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1242	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1248	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1254	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
PCB-1260	Method	1	0	0		1000 µg/kg
	Equipment	1	0	0		1 µg/L
Toxaphene	Method	1	0	0		200 µg/kg
	Equipment	1	0	0		2.4 µg/L
SW8240—Volatile Organic Compounds						
Acetone	Method	3	0	0		100 µg/kg
	Equipment	2	2	0	15.8-30.1 µg/kg	100 µg/kg

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Benzene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Bromodichloromethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Bromomethane	Method	3	0	0		10 µg/kg
	Equipment	2	0	0		10 µg/kg
2-Butanone (MEK)	Method	3	0	0		100 µg/kg
	Equipment	2	0	0		100 µg/kg
Carbon disulfide	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Carbon tetrachloride	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Chlorobenzene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Chloroethane	Method	3	0	0		10 µg/kg
	Equipment	2	0	0		10 µg/kg
2-Chloroethylvinyl ether	Method	3	0	0		10 µg/kg
	Equipment	2	0	0		10 µg/kg
Chloroform	Method	3	0	0		5 µg/kg
	Equipment	2	1	0	1.93 µg/kg	5 µg/kg
Chloromethane	Method	3	0	0		10 µg/kg
	Equipment	2	0	0		10 µg/kg
Dibromochloromethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
1,1-Dichloroethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
1,2-Dichloroethane	Method	3	0	0		5 µg/kg
	Equipment	2	2	0	3.20-4.59 µg/kg	5 µg/kg
1,1-Dichloroethene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
cis-1,2-Dichloroethene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
trans-1,2-Dichloroethene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
1,2-Dichloropropane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
cis-1,3-Dichloropropene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
trans-1,3-Dichloropropene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Ethylbenzene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
2-Hexanone	Method	3	0	0		50 µg/kg
	Equipment	2	0	0		50 µg/kg
Methylene chloride	Method	3	1	1	84.6 µg/kg	5 µg/kg
	Equipment	2	2	1	1.14-7.52 µg/kg	5 µg/kg
4-Methyl-2-pentanone (MIBK)	Method	3	0	0		50 µg/kg
	Equipment	2	0	0		50 µg/kg
Styrene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Tetrachloroethene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
1,1,2,2-Tetrachloroethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Toluene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Tribromomethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
1,1,1-Trichloroethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
1,1,2-Trichloroethane	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Trichloroethene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
Vinyl acetate	Method	3	0	0		50 µg/kg
	Equipment	2	0	0		50 µg/kg
Vinyl chloride	Method	3	0	0		10 µg/kg
	Equipment	2	0	0		10 µg/kg
o-Xylene	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
m&p-Xylenes	Method	3	0	0		5 µg/kg
	Equipment	2	0	0		5 µg/kg
SW8270—Semivolatile Organic Compounds						
Acenaphthene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Acenaphthylene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Anthracene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Benzo(a)anthracene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Benzo(b)fluoranthene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Benzo(k)fluoranthene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Benzo(g,h,i)perylene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Benzo(a)pyrene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Benzoic acid	Method	1	0	0		1.7 mg/kg
	Equipment	1	0	0		50 µg/L
Benzyl alcohol	Method	2	0	0		1.3 mg/kg
	Equipment	2	0	0		20 µg/L
4-Bromophenyl phenyl ether	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Butylbenzylphthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
4-Chloro-3-methylphenol	Method	2	0	0		1.3 mg/kg
	Equipment	2	0	0		20 µg/L
4-Chloroaniline	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		20 µg/L
bis(2-Chloroethyl)ether	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
bis(2-Chloroethoxy)methane	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
bis(2-Chloroisopropyl)ether	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
bis(2-Ethylhexyl)phthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2-Chloronaphthalene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2-Chlorophenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
4-Chlorophenylphenyl ether	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Chrysene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Dibenzo(a,h)anthracene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Dibenzofuran	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Dibutylphthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
1,2-Dichlorobenzene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
1,3-Dichlorobenzene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
1,4-Dichlorobenzene	Method	2	0	0		1.3 mg/kg
	Equipment	2	0	0		20 µg/L
3,3'-Dichlorobenzidine	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2,4-Dichlorophenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
Diethylphthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2,4-Dimethylphenol	Equipment	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
Dimethylphthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
4,6-Dinitro-2-methylphenol	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
2,4-Dinitrophenol	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
2,4-Dinitrotoluene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2,4-Dinitrotoluene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2,6-Dinitrotoluene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
Di-n-octylphthalate	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Diphenylamine/n-Nitroso DPA	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Fluoranthene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Fluorene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Hexachlorobenzene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Hexachlorobutadiene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Hexachlorocyclopentadiene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Hexachloroethane	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Indeno(1,2,3)pyrene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Isophorone	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2-Methylnaphthalene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2-Methylphenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
4-Methylphenol/ 3-Methylphenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
N-Nitrosodipropylamine	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Naphthalene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L

Table 4-1
(Continued)

Method/Analyte	Type of Blank	Number of Blanks	Number of Detects[a]	Number Above Limits	Range of Concentrations	Reporting Limits
2-Nitroaniline	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
3-Nitroaniline	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
4-Nitroaniline	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
Nitrobenzene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2-Nitrophenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
4-Nitrophenol	Method	2	0	0		1.60 mg/kg
	Equipment	2	0	0		50 µg/L
Pentachlorophenol	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
Phenanthrene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
Phenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L
Pyrene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
1,2,4-Trichlorobenzene	Method	2	0	0		0.7 mg/kg
	Equipment	2	0	0		10 µg/L
2,4,5-Trichlorophenol	Method	2	0	0		3.3 mg/kg
	Equipment	2	0	0		50 µg/L
2,4,6-Trichlorophenol	Method	2	0	0		0.33 mg/kg
	Equipment	2	0	0		10 µg/L

[a] Number of detects = Number of observations greater than the sample-specific detection limit.
Blank cell = Indicates that all results for the indicated analyte were less than the sample-specific detection limit.

Table 4-2
Summary of Surrogate Recoveries for 1995 Galena Soil Samples

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery[a]	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
AK101—Gasoline Range Organics						
Trifluorotoluene						
Normal Samples	16	93.3	13.4	0	1	50-150 [b]
LCS	1	132	0.00	0	1	60-120 [b]
MS	4	98.8	2.87	0	0	50-150 [b]
Method Blanks	2	100	NC	0	0	60-120 [b]
Equipment Blanks	2	99.5	NC	0	0	60-120 [b]
AK102—Diesel Range Organics						
Tetracosane						
Normal Samples	16	104	21.6	0	2	50-150 [b]
LCS	4	110	16.0	0	1	60-120 [b]
MS	4	139	41.0	0	2	50-150 [b]
Method Blanks	2	108	NC	0	1	60-120 [b]
Equipment Blanks	2	111	NC	0	0	60-120 [b]
SW8080—Pesticides and PCBs						
Dibutylchlorendate						
Normal Samples	6	101	11.6	0	0	20-150
LCS	4	90.0	4.69	0	0	20-150
MS	2	93.5	NC	0	0	20-150
Method Blanks	1	93.0	NC	0	0	20-150
Equipment Blanks	1	96.0	NC	0	0	20-150
2,4,5,6-Tetrachloro-m-xylene						
Normal Samples	6	98.3	6.53	0	0	20-150
LCS	4	90.0	8.12	0	0	20-150
MS	2	95.0	NC	0	0	20-150
Method Blanks	1	98.0	NC	0	0	20-150
Equipment Blanks	1	96.0	NC	0	0	20-150
SW8260—Volatile Organics						
1,4-Bromofluorobenzene-d_4						
Normal Samples	16	86.4	14.0	2	1	74-121
LCS	4	98.5	1.73	0	0	74-121
MS	6	85.5	4.46	0	0	74-121
Method Blanks	3	91.0	2.65	0	0	74-121
Equipment Blanks	2	91.5	NC	0	0	74-121

Table 4-2
(Continued)

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery[a]	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Toluene-d_8						
Normal Samples	16	94.9	6.06	1	0	81-117
LCS	4	100	0.82	0	0	81-117
MS	6	89.3	13.9	2	0	81-117
Method Blanks	3	97.3	4.62	0	0	81-117
Equipment Blanks	2	99.5	NC	0	0	81-117
1,2-Dichloroethane-d_4						
Normal Samples	16	116	2.71	0	0	70-121
LCS	4	114	3.51	0	0	70-121
MS	6	102	22.3	0	0	70-121
Method Blanks	3	107	13.6	0	0	70-121
Equipment Blanks	2	119	NC	0	0	70-121
SW8270—Semivolatile Organics						
2-Fluorobiphenyl						
Normal Samples	16	94.9	7.27	0	0	54-115
LCS	6	91.5	11.3	0	0	54-115
MS	4	96.5	2.65	0	0	54-115
Method Blanks	2	91.5	NC	0	0	54-115
Equipment Blanks	2	97.5	NC	0	0	54-115
2-Fluorophenol						
Normal Samples	16	85.8	9.06	0	0	46-119
LCS	6	79.5	10.2	0	0	46-119
MS	4	89.0	4.32	0	0	46-119
Method Blanks	2	82.5	NC	0	0	46-119
Equipment Blanks	2	89.5	NC	0	0	46-119
Nitrobenzene-d_5						
Normal Samples	16	92.4	9.69	0	0	49-120
LCS	6	89.5	10.9	0	0	49-120
MS	4	96.5	3.87	0	0	49-120
Method Blanks	2	89.0	NC	0	0	49-120
Equipment Blanks	2	94.5	NC	0	0	49-120
Phenol-d_5						
Normal Samples	16	101	10.2	0	0	50-122
LCS	6	96.0	10.6	0	0	50-122

Table 4-2
(Continued)

Parameter/Analyte	Number of Surrogate Spikes	Mean % Recovery[a]	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
MS	4	106	5.72	0	0	50-122
Method Blanks	2	97.5	NC	0	0	50-122
Equipment Blanks	2	105	NC	0	0	50-122
Terphenyl						
Normal Samples	16	110	11.0	0	1	53-133
LCS	6	104	11.6	0	0	53-133
MS	4	110	2.00	0	0	53-133
Method Blanks	2	104	NC	0	0	53-133
Equipment Blanks	2	111	NC	0	0	53-133
2,4,6-Tribromophenol						
Normal Samples	16	95.8	18.2	0	1	19-122
LCS	6	95.2	11.7	0	0	19-122
MS	4	100	5.56	0	0	19-122
Method Blanks	2	91.0	NC	0	0	19-122
Equipment Blanks	2	107	NC	0	0	19-122

[a] Mean recoveries do not include surrogate recoveries for normal samples for which obvious matrix interferences were noted or that were diluted out due to high sample concentrations

[b] Limits stated in the May 6, 1994 AK101 and AK102 method updates.

Table 4-3
Summary of Matrix Spike Sample Results for 1995 Galena Soil Samples

Parameter/Analyte	Number of Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery
SW6010—ICPES Metals						
Aluminum	2	120	NC	0	0	75-125
Antimony	2	97.5	NC	0	0	75-125
Arsenic	2	75.5	NC	0	0	75-125
Barium	2	147	NC	0	2	75-125
Beryllium	2	90.0	NC	0	0	75-125
Cadmium	2	84.5	NC	0	0	75-125
Calcium	2	104	NC	0	0	75-125
Chromium	2	90.0	NC	0	0	75-125
Cobalt	2	83.5	NC	0	0	75-125
Copper	2	88.5	NC	0	0	75-125
Iron	2	46.0	NC	2	0	75-125
Lead	2	81.0	NC	0	0	75-125
Magnesium	2	88.0	NC	0	0	75-125
Manganese	2	61.0	NC	2	0	75-125
Molybdenum	2	87.0	NC	0	0	75-125
Nickel	2	80.5	NC	0	0	75-125
Potassium	2	94.0	NC	0	0	75-125
Selenium	2	82.0	NC	1	0	75-125
Silver	2	82.5	NC	0	0	75-125
Sodium	2	96.0	NC	0	0	75-125
Thallium	2	130	NC	0	1	75-125
Vanadium	2	92.5	NC	0	0	75-125
Zinc	2	81.0	NC	0	0	75-125
GFAAS Metals						
Arsenic—SW7060	2	106	NC	0	0	75-125
Lead—SW7421	4	103	7.35	0	0	75-125
Selenium—SW7740	2	90.0	NC	0	0	75-125

Table 4-3
(Continued)

Parameter/Analyte	Number of Spikes	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery
AK101—Gasoline Range Organics						
GRO	4	94.8	12.5	0	0	60-120 [a]
AK102—Diesel Range Organics						
DRO	4	84.0	22.6	0	0	60-120 [a]
SW8080—Pesticides and PCBs						
Aldrin	2	88.0	NC	0	0	42-122
gamma-BHC	2	86.0	NC	0	0	32-127
4,4'-DDT	2	92.5	NC	0	0	25-160
Dieldrin	2	89.0	NC	0	0	36-146
Endrin	2	96.5	NC	0	0	30-147
Heptachlor	2	86.0	NC	0	0	34-120
SW8240—Volatile Organic Compounds						
Benzene	6	94.2	15.0	0	0	37-151
Chlorobenzene	6	93.8	11.7	0	0	37-160
1,1-Dichloroethene	6	91.7	14.6	0	0	D-234
Toluene	6	92.8	11.8	0	0	47-150
Trichloroethene	6	87.7	15.3	2	0	71-157
SW8270—Semivolatile Organic Compounds						
Acenaphthene	3	100	3.46	0	0	47-145
4-Chloro-3-methylphenol	4	93.3	3.10	0	0	22-147
2-Chlorophenol	4	91.5	5.20	0	0	23-134
1,4-Dichlorobenzene	3	94.3	4.16	0	0	20-124
2,4-Dinitrotoluene	3	105	5.03	0	0	39-139
N-Nitrosodipropylamine	3	106	6.24	0	0	D-230
4-Nitrophenol	4	81.5	3.00	0	0	D-132
Pentachlorophenol	4	103	5.50	0	0	14-176
Phenol	4	81.0	3.92	0	0	5-112
Pyrene	3	101	2.31	0	0	52-115
1,2,4-Trichlorobenzene	3	99.3	4.16	0	0	44-142

[a] Limits specified in the May 6, 1994 AK101 and AK102 method updates.

Table 4-4
Summary of Duplicates Results for 1995 Galena Soil Samples

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
SW6010—ICP Metals							
Aluminum	LCS	1	13.1	NC	0	93-106	NS
	MS	1	9.21	NC	0	114-125	35
Antimony	LCS	1	79.9	NC	0	82-191	NS
	MS	1	3.08	NC	0	96-99	35
Arsenic	LCS	1	17.0	NC	0	86-102	NS
	MS	1	1.32	NC	0	75-76	35
Barium	LCS	1	3.05	NC	0	97-100	NS
	MS	1	27.2	NC	0	127-167	35
Beryllium	LCS	1	4.17	NC	0	94-98	NS
	MS	1	0.00	NC	0	90	35
Cadmium	LCS	1	2..25	NC	0	88-90	NS
	MS	1	1.18	NC	0	84-85	35
Calcium	LCS	1	3.11	NC	0	95-98	NS
	MS	1	3.85	NC	0	102-106	35
Chromium	LCS	1	3.08	NC	0	96-99	NS
	MS	1	0.00	NC	0	90	35
Cobalt	LCS	1	1.02	NC	0	98-99	NS
	MS	1	3.59	NC	0	82-85	35
Copper	LCS	1	2.11	NC	0	94-96	NS
	MS	1	1.13	NC	0	88-89	35
Iron	LCS	1	0.91	NC	0	110-111	NS
	MS	1	69.6	NC	0	30-62	35
Lead	LCS	1	1.18	NC	0	84-85	NS
	MS	1	9.88	NC	0	77-85	35
Magnesium	LCS	1	4.93	NC	0	99-104	NS
	MS	1	11.4	NC	0	83-93	35
Manganese	LCS	1	3.96	NC	0	99-103	NS
	MS	1	26.2	NC	0	53-69	35
Molybdenum	LCS	1	2.08	NC	0	95-97	NS
	MS	1	2.30	NC	0	86-88	35

Table 4-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
Nickel	LCS	1	4.04	NC	0	97-101	NS
	MS	1	6.21	NC	0	78-83	35
Potassium	LCS	1	8.51	NC	0	90-98	NS
	MS	1	0.00	NC	0	94	35
Selenium	LCS	1	5.48	NC	0	71-75	NS
	MS	1	24.4	NC	0	72-92	35
Silver	LCS	1	1.14	NC	0	87-88	NS
	MS	1	3.64	NC	0	81-84	35
Sodium	LCS	1	4.98	NC	0	98-103	NS
	MS	1	0.00	NC	0	96	35
Thallium	LCS	1	6.06	NC	0	96-102	NS
	MS	1	7.69	NC	0	125-135	35
Vanadium	LCS	1	1.02	NC	0	98-99	NS
	MS	1	5.41	NC	0	90-95	35
Zinc	LCS	1	0.00	NC	0	94	NS
	MS	1	2.47	NC	0	80-82	35
GFAAS Metals							
Arsenic—SW7421	LCS	1	4.74	NC	0	103-108	NS
	MS	1	6.64	NC	0	102-109	35
Lead—SW7421	LCS	2	0.47	NC	0	101-107	NS
	MS	2	2.75	NC	0	97-112	35
Selenium—SW7421	LCS	1	1.06	NC	0	94-95	NS
	MS	1	4.14	NC	0	88-92	35
AK101—Gasoline Range Organics							
GRO	MS	2	10.2	NC	0	80-109	20 [a]
AK102—Diesel Range Organics							
DRO	LCS	2	10.8	NC	0	96-129	20 [a]
	MS	2	11.6	NC	0	102-175	20 [a]
SW8080—Pesticides and PCBs							
Aldrin	LCS	1	1.06	NC	0	94-95	NS
	MS	1	4.55	NC	0	86-90	55
alpha-BHC	LCS	1	1.12	NC	0	89-90	NS
delta-BHC	LCS	1	1.13	NC	0	88-89	NS

Table 4-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
gamma-BHC	LCS	1	2.00	NC	0	99-101	NS
	MS	1	2.33	NC	0	85-87	63
alpha-Chlordane	LCS	1	0.00	NC	0	101	NS
gamma-Chlordane	LCS	1	1.05	NC	0	95-96	NS
4,4'-DDT	LCS	1	0.00	NC	0	94	NS
	MS	1	20.5	NC	0	83-102	85
Dieldrin	LCS	1	0.00	NC	0	91	NS
	MS	1	2.25	NC	0	88-90	44
Endosulfan II	LCS	1	0.00	NC	0	91	NS
Endrin	LCS	1	2.35	NC	0	84-86	NS
	MS	1	3.11	NC	0	95-98	67
Endrin aldehyde	LCS	1	18.0	NC	0	76-91	NS
Heptachlor	LCS	1	2.13	NC	0	93-95	NS
	MS	1	2.33	NC	0	85-87	43
Heptachlor epoxide	LCS	1	1.03	NC	0	97-98	NS
PCB-1016	LCS	1	4.40	NC	0	89-93	NS
PCB-1260	LCS	1	3.28	NC	0	90-93	NS
SW8240—Volatile Organic Compounds							
Acetone	LCS	2	2.76	NC	0	136-235	NS
Benzene	LCS	2	1.45	NC	0	102-108	NS
	MS	3	4.03	NC	0	73-106	60
Bromodichloromethane	LCS	2	2.49	NC	0	98-109	NS
Bromomethane	LCS	2	5.62	NC	0	93-102	NS
2-Butanone (MEK)	LCS	2	1.79	NC	0	109-142	NS
Carbon disulfide	LCS	2	2.66	NC	0	109-117	NS
Carbon tetrachloride	LCS	2	2.79	NC	0	85-96	NS
Chlorobenzene	LCS	2	1.08	NC	0	92-100	NS
	MS	3	2.76	NC	0	77-105	63
Chloroethane	LCS	2	4.13	NC	0	93-101	NS
2-Chloroethylvinyl ether	LCS	2	3.13	NC	0	93-99	NS
Chloroform	LCS	2	3.91	NC	0	99-105	NS
Chloromethane	LCS	2	2.91	NC	0	101-106	NS
Dibromochloromethane	LCS	2	3.38	NC	0	85-96	NS
1,1-Dichloroethane	LCS	2	1.91	NC	0	102-108	NS
1,2-Dichloroethane	LCS	2	3.06	NC	0	111-118	NS

Table 4-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
1,1-Dichloroethene	LCS	2	3.36	NC	0	99-109	NS
	MS	3	3.13	NC	0	72-107	133
trans-1,2-Dichloroethene	LCS	2	3.64	NC	0	105-116	NS
1,2-Dichloropropane	LCS	2	3.48	NC	0	98-103	NS
cis-1,3-Dichloropropene	LCS	2	2.09	NC	0	93-100	NS
trans-1,3-Dichloropropene	LCS	2	3.03	NC	0	95-108	NS
Ethylbenzene	LCS	2	1.51	NC	0	98-107	NS
2-Hexanone	LCS	2	5.72	NC	0	97-126	NS
Methylene chloride	LCS	2	5.33	NC	0	81-87	NS
4-Methyl-2-pentanone	LCS	2	4.71	NC	0	103-110	NS
Styrene	LCS	2	2.01	NC	0	97-103	NS
Tetrachloroethene	LCS	2	2.33	NC	0	82-94	NS
1,1,2,2-Tetrachloroethane	LCS	2	3.74	NC	0	101-111	NS
Toluene	LCS	2	2.91	NC	0	99-109	NS
	MS	3	1.09	NC	0	78-105	53
Tribromomethane (Bromoform)	LCS	2	2.18	NC	0	84-89	NS
1,1,1-Trichloroethane	LCS	2	3.19	NC	0	106-114	NS
1,1,2-Trichloroethane	LCS	2	1.06	NC	0	93-101	NS
Trichloroethene	LCS	2	2.17	NC	0	89-98	NS
	MS	3	2.38	NC	0	68-103	NS
Vinyl acetate	LCS	2	4.31	NC	0	96-115	NS
Vinyl chloride	LCS	2	4.96	NC	0	97-105	NS
m&p-Xylenes	LCS	2	2.40	NC	0	101-109	NS
o-Xylene	LCS	2	0.47	NC	0	103-108	NS
SW8270—Semivolatile Organic Compounds							
Acenaphthene	LCS	2	11.1	NC	0	87-113	NS
	MS	1	6.06	NC	0	96-102	56
Acenaphthylene	LCS	2	12.1	NC	0	86-115	NS
Anthracene	LCS	2	8.66	NC	0	88-110	NS
Benzo(a)anthracene	LCS	2	8.53	NC	0	90-116	NS
Benzo(b)fluoranthene	LCS	2	13.9	NC	0	79-100	NS
Benzo(k)fluoranthene	LCS	2	12.9	NC	0	87-115	NS
Benzo(g,h,i)perylene	LCS	2	11.0	NC	0	92-118	NS
Benzo(a)pyrene	LCS	2	11.7	NC	0	86-113	NS
Benzoic acid	LCS	2	7.92	NC	0	26-109	NS
Benzyl alcohol	LCS	2	12.1	NC	0	80-104	NS

Table 4-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
bis(2-Chloroethoxy)methane	LCS	2	9.76	NC	0	85-107	NS
bis(2-Chloroethyl)ether	LCS	2	11.8	NC	0	82-104	NS
bis(2-Chloroisopropyl)ether	LCS	2	11.5	NC	0	72-100	NS
bis(2-Ethylhexyl)phthalate	LCS	2	13.1	NC	0	93-130	NS
4-Bromophenyl phenyl ether	LCS	2	10.1	NC	0	92-116	NS
Butylbenzyl phthalate	LCS	2	10.4	NC	0	90-112	NS
4-Chloroaniline	LCS	2	13.5	NC	0	70-104	NS
4-Chloro-3-methylphenol	LCS	2	13.0	NC	0	80-108	NS
	MS	2	4.85	NC	0	89-96	84
2-Chloronaphthalene	LCS	2	12.7	NC	0	86-111	NS
4-Chlorophenyl phenyl ether	LCS	2	12.4	NC	0	90-122	NS
2-Chlorophenol	LCS	2	11.7	NC	0	75-107	NS
	MS	2	8.72	NC	0	86-98	81
Chrysene	LCS	2	8.03	NC	0	91-114	NS
Dibenz(a,h)anthracene	LCS	2	10.5	NC	0	93-118	NS
Dibenzofuran	LCS	2	12.6	NC	0	86-113	NS
Di-n-butylphthalate	LCS	2	11.0	NC	0	89-112	NS
1,2-Dichlorobenzene	LCS	2	11.6	NC	0	79-107	NS
1,3-Dichlorobenzene	LCS	2	12.2	NC	0	78-106	NS
1,4-Dichlorobenzene	LCS	2	12.7	NC	0	78-108	NS
	MS	1	8.42	NC	0	91-99	81
3,3'-Dichlorobenzidine	LCS	2	11.7	NC	0	77-107	NS
2,4-Dichlorophenol	LCS	2	11.4	NC	0	78-110	NS
Diethyl phthalate	LCS	2	11.0	NC	0	88-113	NS
Dimethyl phthalate	LCS	2	12.3	NC	0	48-80	NS
2,4-Dimethylphenol	LCS	2	13.0	NC	0	93-123	NS
2,6-Dinitro-2-methylphenol	LCS	2	11.0	NC	0	91-163	NS
2,4-Dinitrophenol	LCS	2	17.2	NC	0	78-157	NS
2,4-Dinitrotoluene	LCS	2	13.4	NC	0	93-134	NS
	MS	1	5.61	NC	0	100-110	62
2,6-Dinitrotoluene	LCS	2	13.6	NC	0	92-123	NS
Di-n-octylphthalate	LCS	2	11.9	NC	0	92-119	NS
Diphenylamine (n-NitrosoDPA)	LCS	2	8.34	NC	0	76-96	NS
Fluoranthene	LCS	2	8.48	NC	0	91-112	NS
Fluorene	LCS	2	11.0	NC	0	88-114	NS
Hexachlorobenzene	LCS	2	8.93	NC	0	89-113	NS

Table 4-4
(Continued)

Method/Analyte	Type of Duplicate	Number of Pairs	Mean RPD	Standard Deviation	Number Above Limits	Range of Recoveries	RPD Limits
Hexachlorobutadiene	LCS	2	9.39	NC	0	82-105	NS
Hexachlorocyclopentadiene	LCS	2	32.0	NC	0	8.4-90	NS
Hexachloroethane	LCS	2	9.02	NC	0	80-111	NS
Indeno(1,2,3)pyrene	LCS	2	10.2	NC	0	92-116	NS
Isophorone	LCS	2	10.4	NC	0	84-107	NS
2-Methylnaphthalene	LCS	2	9.33	NC	0	87-109	NS
2-Methylphenol	LCS	2	13.8	NC	0	74-105	NS
4-Methylphenol/3-Methylphenol	LCS	2	10.9	NC	0	69-100	NS
Naphthalene	LCS	2	11.7	NC	0	83-106	NS
2-Nitroaniline	LCS	2	30.5	NC	0	63-125	NS
3-Nitroaniline	LCS	2	12.8	NC	0	86-120	NS
4-Nitroaniline	LCS	2	14.9	NC	0	75-108	NS
Nitrobenzene	LCS	2	12.6	NC	0	83-111	NS
2-Nitrophenol	LCS	2	14.6	NC	0	80-121	NS
4-Nitrophenol	LCS	2	16.6	NC	0	73-104	NS
	MS	2	6.14	NC	0	78-84	124
n-Nitrosodipropylamine	LCS	2	11.3	NC	0	86-109	NS
	MS	2	8.70	NC	0	99-111	113
Pentachlorophenol	LCS	2	10.0	NC	0	83-125	NS
	MS	2	8.23	NC	0	98-110	86
Phenanthrene	LCS	2	10.4	NC	0	90-112	NS
Phenol	LCS	2	12.6	NC	0	72-103	NS
	MS	2	7.43	NC	0	76-85	76
Pyrene	LCS	2	9.28	NC	0	91-112	NS
	MS	1	3.92	NC	0	101-104	43
1,2,4-Trichlorobenzene	MS	2	13.1	NC	0	82-111	NS
	LCS	1	8.00	NC	0	96-104	59
2,4,5-Trichlorophenol	LCS	2	13.0	NC	0	84-124	NS
2,4,6-Trichlorophenol	LCS	2	14.4	NC	0	81-118	NS

[a] Limits specified in the May 6, 1994 AK101 and AK102 method updates.

Table 4-5
Summary of Laboratory Control Sample Results for 1995 Galena Soil Samples

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
SW6010—ICPES Metals—Liquid LCS						
Aluminum	8	93.8	1.58	0	0	80-120
Antimony	8	108	5.70	0	0	80-120
Arsenic	8	94.1	6.15	0	0	80-120
Barium	8	94.1	1.25	0	0	80-120
Beryllium	8	101	5.32	0	0	80-120
Cadmium	8	89.1	2.75	0	0	80-120
Calcium	8	95.1	1.96	1	0	80-120
Chromium	8	92.9	1.89	0	0	80-120
Cobalt	8	91.4	3.02	0	0	80-120
Copper	8	93.4	1.60	0	0	80-120
Iron	8	96.9	3.36	0	0	80-120
Lead	8	88.9	4.29	0	0	80-120
Magnesium	8	93.6	2.00	0	0	80-120
Manganese	8	93.5	1.93	0	0	80-120
Molybdenum	8	96.0	1.69	0	0	80-120
Nickel	8	91.3	2.19	0	0	80-120
Potassium	8	95.9	5.25	0	0	80-120
Selenium	8	87.9	7.02	0	0	80-120
Silver	8	89.4	2.45	0	0	80-120
Sodium	8	96.4	2.39	0	0	80-120
Thallium	8	95.6	6.95	0	0	80-120
Vanadium	8	94.1	1.81	0	0	80-120
Zinc	8	90.5	2.78	0	0	80-120
SW6010—ICPES Metals—Solid LCS (ERA)						
Aluminum	2	99.5	NC	0	0	80-120
Antimony	2	137	NC	0	1	80-120
Arsenic	2	94.0	NC	0	0	80-120

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Barium	2	98.5	NC	0	0	80-120
Beryllium	2	96.0	NC	0	0	80-120
Cadmium	2	89.0	NC	0	0	80-120
Calcium	2	96.5	NC	0	0	80-120
Chromium	2	97.5	NC	0	0	80-120
Cobalt	2	98.5	NC	0	0	80-120
Copper	2	95.0	NC	0	0	80-120
Iron	2	111	NC	0	0	80-120
Lead	2	84.5	NC	0	0	80-120
Magnesium	2	102	NC	0	0	80-120
Manganese	2	101	NC	0	0	80-120
Molybdenum	2	96.0	NC	0	0	80-120
Nickel	2	99.0	NC	0	0	80-120
Potassium	2	94.0	NC	0	0	80-120
Selenium	2	73.0	NC	2	0	80-120
Silver	2	87.5	NC	0	0	80-120
Sodium	2	101	NC	0	0	80-120
Thallium	2	99.0	NC	0	0	80-120
Vanadium	2	98.5	NC	0	0	80-120
Zinc	2	94.0	NC	0	0	80-120
GFAAS Metals—Liquid LCS						
Arsenic—SW7060	4	99.0	2.45	0	0	75-125
Lead—SW7421	8	96.1	4.32	0	0	75-125
Selenium—SW7740	4	102	6.45	0	0	75-125
GFAAS Metals—Solid LCS (ERA)						
Arsenic—SW7060	2	106	NC	0	0	75-125
Lead—SW7421	4	104	3.20	0	0	75-125
Selenium—SW7740	2	94.5	NC	0	0	75-125

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
AK101—Gasoline Range Organics						
GRO	1	110	NC	0	0	75-125 [a]
AK102—Diesel Range Organics						
DRO	4	91.3	10.7	0	0	75-125 [a]
SW8080—Pesticides and PCBs						
Aldrin	2	94.5	NC	0	0	42-122
alpha-BHC	2	89.5	NC	0	0	37-134
delta-BHC	2	88.5	NC	0	0	19-140
gamma-BHC	2	100	NC	0	0	32-127
alpha-Chlordane	2	101	NC	0	0	NS
gamma-Chlordane	2	95.5	NC	0	0	NS
4,4'-DDT	2	94.0	NC	0	0	25-160
Dieldrin	2	91.0	NC	0	0	36-146
Endosulfan II	2	91.0	NC	0	0	D-202
Endrin	2	85.0	NC	0	0	30-147
Endrin aldehyde	2	83.5	NC	0	0	25-120
Heptachlor	2	94.0	NC	0	0	34-120
Heptachlor epoxide	2	97.5	NC	0	0	37-142
PCB-1016	2	91.0	NC	0	0	50-120
PCB-1260	2	91.5	NC	0	0	8-127
SW8240—Volatile Organic Compounds						
Acetone	4	183	53.9	0	0	NS
Benzene	4	106	2.87	0	0	37-151
Bromodichloromethane	4	105	5.32	0	0	35-155
Bromomethane	4	98.8	4.03	0	0	D-242
2-Butanone (MEK)	4	124	17.7	0	0	NS
Carbon disulfide	4	113	3.37	0	0	NS
Carbon tetrachloride	4	90.8	5.12	0	0	70-140

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
Chlorobenzene	4	96.5	4.12	0	0	37-160
Chloroethane	4	96.5	3.32	0	0	NS
2-Chloroethylvinyl ether	4	95.5	2.52	0	0	NS
Chloroform	4	103	2.65	0	0	51-138
Chloromethane	4	103	2.38	0	0	D-273
Dibromochloromethane	4	91.5	5.07	0	0	53-149
1,1-Dichloroethane	4	106	2.65	0	0	59-155
1,2-Dichloroethane	4	116	3.20	0	0	49-155
1,1-Dichloroethene	4	104	4.27	0	0	D-234
trans-1,2-Dichloroethene	4	111	4.69	0	0	54-156
1,2-Dichloropropane	4	101	2.22	0	0	D-210
cis-1,3-Dichloropropene	4	97.0	3.16	0	0	D-277
trans-1,3-Dichloropropene	4	103	6.14	0	0	17-183
Ethylbenzene	4	103	4.50	0	0	37-162
2-Hexanone	4	110	13.6	0	0	NS
Methylene chloride	4	84.8	2.87	0	0	D-221
4-Methyl-2-pentanone	4	106	3.16	0	0	NS
Styrene	4	101	2.65	0	0	NS
Tetrachloroethene	4	88.5	5.92	0	0	64-148
1,1,2,2,-Tetrachloroethane	4	104	4.76	0	0	46-157
Toluene	4	105	4.43	0	0	47-150
Tribromomethane	4	89.5	5.92	0	0	45-169
1,1,1-Trichloroethane	4	111	3.40	0	0	52-162
1,1,2-Trichloroethane	4	97.5	4.12	0	0	52-150
Trichloroethene	4	94.0	4.24	0	0	71-157
Vinyl acetate	4	106	8.77	0	0	NS
Vinyl chloride	4	101	3.42	0	0	D-251
m&p-Xylenes	4	106	3.59	0	0	NS

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
o-Xylene	2	105	2.63	0	0	NS
SW8270—Semivolatile Organic Compounds						
Acenaphthene	6	98.3	9.75	0	0	47-145
Acenaphthylene	6	97.2	11.5	0	0	33-145
Anthracene	6	97.3	9.83	0	0	27-133
Benzo(a)anthracene	6	101	11.4	0	0	33-143
Benzo(b)fluoranthene	6	92.8	7.68	0	0	24-159
Benzo(k)fluoranthene	6	96.3	9.67	0	0	11-162
Benzo(g,h,i)perylene	6	103	9.16	0	0	D-219
Benzo(a)pyrene	6	99.7	8.76	0	0	17-163
Benzoic acid	6	64.0	32.3	0	0	0-197
Benzyl alcohol	6	91.5	10.3	0	0	NS
4-Bromophenyl phenyl ether	6	101	9.46	0	0	53-127
Butylbenzylphthalate	6	99.2	8.52	0	0	D-152
4-Chloro-3-methylphenol	6	92.7	12.1	0	0	22-147
p-Chloroaniline	6	85.5	13.7	0	0	59-163
bis(2-Chloroethyl)ether	6	93.0	10.1	0	0	12-158
bis(2-Chloroethoxy)methane	6	95.8	8.98	0	0	33-184
bis(2-Chloroisopropyl)ether	6	86.5	10.3	0	0	36-166
2-Chloronaphthalene	6	96.2	9.91	0	0	60-118
2-Chlorophenol	6	90.0	13.8	0	0	23-134
4-Chlorophenyl phenyl ether	6	102	12.0	0	0	25-158
Chrysene	6	101	10.5	0	0	17-168
Di-n-octylphthalate	6	105	8.96	0	0	4-146
Dibenz(a,h)anthracene	6	103	9.22	0	0	D-227
Dibenzofuran	6	96.8	10.1	0	0	67-126
Dibutylphthalate	6	98.7	9.03	0	0	1-118
1,2-Dichlorobenzene	6	92.0	11.1	0	0	32-129

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
1,3-Dichlorobenzene	6	90.5	11.2	0	0	D-172
1,4-Dichlorobenzene	6	91.0	12.0	0	0	20-124
3,3'-Dichlorobenzidine	6	89.2	11.8	0	0	D-262
2,4-Dichlorophenol	6	93.8	14.2	0	0	39-135
Diethylphthalate	6	97.2	9.99	0	0	67-143
2,4-Dimethylphenol	6	63.2	14.2	0	0	D-116
Dimethylphthalate	6	104	11.4	0	0	68-127
4,6-Dinitro-2-methylphenol	6	123	31.6	0	0	D-181
2,4-Dinitrophenol	6	110	32.5	0	0	D-191
2,4-Dinitrotoluene	6	108	15.9	0	0	39-139
2,6-Dinitrotoluene	6	103	11.7	0	0	50-158
Diphenylamine (n-Nitroso DPA)	6	84.5	8.73	0	0	NS
bis(2-Ethylhexyl)phthalate	6	106	14.5	0	0	8-158
Fluoranthene	6	99.8	9.30	0	0	26-137
Fluorene	6	97.7	10.7	0	0	59-121
Hexachlorobenzene	6	99.5	10.1	0	0	D-152
Hexachlorobutadiene	6	94.3	9.99	0	0	40-137
Hexachlorocyclopentadiene	6	38.9	34.4	0	0	0-249
Hexachloroethane	6	94.2	13.6	0	0	53-143
Indeno(1,2,3-cd)pyrene	6	103	8.53	0	0	D-171
Isophorone	6	94.8	9.66	0	0	21-196
2-Methylnaphthalene	6	97.5	9.35	0	0	30-168
2-Methylphenol	6	87.3	13.1	0	0	33-132
4-Methylphenol/ 3-Methylphenol	6	82.7	14.2	0	0	25-135
N-Nitrosodipropylamine	6	95.7	9.05	0	0	D-230
Naphthalene	6	93.8	9.75	0	0	21-133
2-Nitroaniline	6	98.2	21.0	0	0	28-167

Table 4-5
(Continued)

Parameter/Analyte	Number of LCS Samples	Mean % Recovery	Standard Deviation	Number Below Limits	Number Above Limits	Recovery Limits
3-Nitroaniline	6	98.7	13.4	0	0	60-152
4-Nitroaniline	6	87.0	12.9	0	0	42-155
Nitrobenzene	6	96.8	11.6	0	0	35-180
2-Nitrophenol	6	98.7	16.2	0	0	29-182
4-Nitrophenol	6	84.5	12.8	0	0	D-132
Pentachlorophenol	6	101	18.3	0	0	14-176
Phenanthrene	6	99.5	8.76	0	0	54-120
Phenol	6	86.0	13.6	0	0	5-112
Pyrene	6	101	8.86	0	0	52-115
1,2,4-Trichlorobenzene	6	95.0	11.1	0	0	44-142
2,4,5-Trichlorophenol	6	99.8	16.6	0	0	61-116
2,4,6-Trichlorophenol	6	96.7	13.9	0	0	37-144

[a] Limits specified in the May 6, 1994 AK101 and AK102 method updates.

ATTACHMENT D

LIST OF TABLES

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D-2 Date and Batch Summary, Soil Samples, Galena 1995

D-3 Detailed Listing of Liquid Blanks Results—Water Samples, Galena 1995

D-4 Detailed Listing of Liquid Spike Results—Water Samples, Galena 1995

D-5 Detailed Listing of Liquid Duplicate Results—Water Samples, Galena 1995

D-6 Detailed Listing of Solid Blanks Results—Soil Samples, Galena 1995

D-7 Detailed Listing of Liquid Blanks Results—Soil Samples, Galena 1995

D-8 Detailed Listing of Solid Spike Results—Soil Samples, Galena 1995

D-9 Detailed Listing of Liquid Spike Results—Soil Samples, Galena 1995

D-10 Detailed Listing of Solid Duplicate Results—Soil Samples, Galena 1995

D-11 Detailed Listing of Liquid Duplicate Results—Soil Samples, Galena 1995

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-02-GW-01-UT N								
A403 - Alkalinity	GAL9508/07/95	NONE			8/7/95			8/7/95
E170.1 - Temperature	GAL9518/07/95	NONE			8/7/95			8/7/95
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
E525.1 - Organics in Water	95222WAC026	NONE			8/7/95			8/11/95
SW9040 - pH Electrometric Measurement	GAL9528/07/95	NONE			8/7/95			8/7/95
SW9050 - Specific Conductance	GAL9538/07/95	NONE			8/7/95			8/7/95
Sample ID : G95-02-GW-01-UT-FD FD								
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
E525.1 - Organics in Water	95222WAC026	NONE			8/7/95			8/17/95
Sample ID : G95-02-GW-01-UT-FD FDy								
A403 - Alkalinity	GAL9508/07/95	NONE			8/7/95			8/7/95
E170.1 - Temperature	GAL9518/07/95	NONE			8/7/95			8/7/95
SW9040 - pH Electrometric Measurement	GAL9528/07/95	NONE			8/7/95			8/7/95
SW9050 - Specific Conductance	GAL9538/07/95	NONE			8/7/95			8/7/95
Sample ID : G95-02-GW-03-UT N								
A403 - Alkalinity	GAL9508/07/95	NONE			8/7/95			8/7/95
E170.1 - Temperature	GAL9518/07/95	NONE			8/7/95			8/7/95
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
E525.1 - Organics in Water	95222WAC026	NONE			8/7/95			8/17/95
SW9040 - pH Electrometric Measurement	GAL9528/07/95	NONE			8/7/95			8/7/95
SW9050 - Specific Conductance	GAL9538/07/95	NONE			8/7/95			8/7/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-02-GW-04-UT N								
A403 - Alkalinity	GAL9508/07/95	NONE			8/7/95			8/7/95
E170.1 - Temperature	GAL9518/07/95	NONE			8/7/95			8/7/95
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
E525.1 - Organics in Water	95222WAC026	NONE			8/7/95			8/17/95
SW9040 - pH Electrometric Measurement	GAL9528/07/95	NONE			8/7/95			8/7/95
SW9050 - Specific Conductance	GAL9538/07/95	NONE			8/7/95			8/7/95
Sample ID : G95-02-GW-05-AT N								
A403 - Alkalinity	GAL9508/07/95	NONE			8/7/95			8/7/95
E170.1 - Temperature	GAL9518/07/95	NONE			8/7/95			8/7/95
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
E525.1 - Organics in Water	95222WAC026	NONE			8/7/95			8/17/95
SW9040 - pH Electrometric Measurement	GAL9528/07/95	NONE			8/7/95			8/7/95
SW9050 - Specific Conductance	GAL9538/07/95	NONE			8/7/95			8/7/95
Sample ID : G95-02-GW-AB-01 AB								
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
Sample ID : G95-02-GW-TB-01 TB								
E524.2 - VOC by Purge and Trap Capillary Column	F952221A	NONE			8/7/95			8/11/95
Sample ID : G95-13-SS-04-EB EB								
AK101 - Gasoline Range Organics	BH021.05	Extraction method identified by analytical method.	BH021.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH011.21	Extraction method	BH011.21		7/26/95	8/1/95		8/2/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		identified by analytical method.						
SW6010 - Metals	EMJA61508141100	SW6010 trace digestion - water	IDIG950802080000		7/26/95	8/2/95		8/14/95
SW7060 - Arsenic	AAZ4__508090834	GFAA Digestion	GDIG950802080000		7/26/95	8/2/95		8/9/95
SW7421 - Lead	AAZ3__508090904	GFAA Digestion	GDIG950802080000		7/26/95	8/2/95		8/9/95
SW7740 - Selenium	AAZ3__508150930	GFAA Digestion	GDIG950802080000		7/26/95	8/2/95		8/15/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC8A508081200	Separatory Funnel Liquid-Liquid Extraction	3510950801093500		7/26/95	8/1/95		8/9/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC8B508081200	Separatory Funnel Liquid-Liquid Extraction	3510950801093500		7/26/95	8/1/95		8/9/95
SW8270 - Semivolatile Organics	MSMSD1508040835	Continuous Liquid-Liquid Extraction	3520950731160500		7/26/95	7/31/95		8/4/95
Sample ID : G95-SE-GP-01 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/19/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-01-FD FD								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/19/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-02 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/19/95	7/26/95		7/26/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-SE-GP-02-EB EB								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/19/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-03 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/20/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-04 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/20/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-05 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/20/95	7/26/95		7/26/95
Sample ID : G95-SE-GP-06 N								
AK102 - Diesel Range Organics	BG261.02	Extraction method identified by analytical method.	BG261.02		7/20/95	7/26/95		7/26/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-SE-GP-07 N								
AK102 - Diesel Range Organics	BH011.21	Extraction method identified by analytical method.	BH011.21		7/27/95	8/1/95		8/2/95
Sample ID : G95-SE-GP-08 N								
AK102 - Diesel Range Organics	BH011.21	Extraction method identified by analytical method.	BH011.21		7/27/95	8/1/95		8/2/95
Sample ID : G95-SE-GP-09 N								
AK102 - Diesel Range Organics	BH011.21	Extraction method identified by analytical method.	BH011.21		7/27/95	8/1/95		8/2/95
Sample ID : G95-SE-GP-10 N								
AK102 - Diesel Range Organics	BH011.21	Extraction method identified by analytical method.	BH011.21		7/27/95	8/1/95		8/2/95
Sample ID : G95-SE-MW-01-01 N								
A403 - Alkalinity	GAL9508/09/95	NONE			8/9/95			8/9/95
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/9/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical	BH221.02		8/9/95	8/22/95		8/23/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		method.						
E170.1 - Temperature	GAL9518/09/95	NONE			8/9/95			8/9/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/9/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/9/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/9/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/9/95	8/15/95		8/15/95
SW9040 - pH Electrometric Measurement	GAL9528/09/95	NONE			8/9/95			8/9/95
SW9050 - Specific Conductance	GAL9538/09/95	NONE			8/9/95			8/9/95
Sample ID : G95-SE-MW-01-FD-01 FD								
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/9/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/9/95	8/22/95		8/23/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/9/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/9/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/9/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/9/95	8/15/95		8/15/95
Sample ID : G95-SE-MW-01-FD-01 FDy								
A403 - Alkalinity	GAL9508/09/95	NONE			8/9/95			8/9/95
E170.1 - Temperature	GAL9518/09/95	NONE			8/9/95			8/9/95
SW9040 - pH Electrometric Measurement	GAL9528/09/95	NONE			8/9/95			8/9/95
SW9050 - Specific Conductance	GAL9538/09/95	NONE			8/9/95			8/9/95
Sample ID : G95-SE-MW-02-01 N								
A403 - Alkalinity	GAL9508/08/95	NONE			8/8/95			8/8/95
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical	BH151.04		8/8/95	8/16/95		8/16/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		method.						
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/8/95	8/22/95		8/23/95
E170.1 - Temperature	GAL9518/08/95	NONE			8/8/95			8/8/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/8/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/8/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/8/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/8/95	8/15/95		8/15/95
SW9040 - pH Electrometric Measurement	GAL9528/08/95	NONE			8/8/95			8/8/95
SW9050 - Specific Conductance	GAL9538/08/95	NONE			8/8/95			8/8/95
Sample ID : G95-SE-MW-03-01 MS								
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/8/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/8/95	8/22/95		8/23/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/8/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/8/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/8/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/8/95	8/15/95		8/15/95
Sample ID : G95-SE-MW-03-01 MSD								
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/8/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/8/95	8/22/95		8/23/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/8/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/8/95	8/17/95		8/18/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/8/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/8/95	8/15/95		8/15/95
Sample ID : G95-SE-MW-03-01 N								
A403 - Alkalinity	GAL9508/08/95	NONE			8/8/95			8/8/95
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/8/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/8/95	8/22/95		8/23/95
E170.1 - Temperature	GAL9518/08/95	NONE			8/8/95			8/8/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/8/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/8/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/8/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/8/95	8/15/95		8/15/95
SW9040 - pH Electrometric Measurement	GAL9528/08/95	NONE			8/8/95			8/8/95
SW9050 - Specific Conductance	GAL9538/08/95	NONE			8/8/95			8/8/95
Sample ID : G95-SE-MW-04-01 N								
A403 - Alkalinity	GAL9508/09/95	NONE			8/9/95			8/9/95
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/9/95	8/15/95		8/15/95
AK102 - Diesel Range Organics	BH221.02	Extraction method identified by analytical method.	BH221.02		8/9/95	8/22/95		8/24/95
E170.1 - Temperature	GAL9518/09/95	NONE			8/9/95			8/9/95
SW6010 - Metals	EMJA61508171430	ICP Digestion	IDIG950817070000		8/9/95	8/17/95		8/17/95
SW7421 - Lead	AAZ4__508181311	GFAA Digestion	GDIG950817073000		8/9/95	8/17/95		8/18/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/9/95			8/16/95
SW8270 - Semivolatile Organics	MSMSD2508150849	NONE	3510950815084500		8/9/95	8/15/95		8/15/95
SW9040 - pH Electrometric Measurement	GAL9528/09/95	NONE			8/9/95			8/9/95

TABLE D-1 DATE AND BATCH SUMMARY, WATER SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
SW9050 - Specific Conductance	GAL9538/09/95	NONE			8/9/95			8/9/95
Sample ID : G95-SE-MW-04-02-EB EB								
AK101 - Gasoline Range Organics	BH111.04	Extraction method identified by analytical method.	BH111.04		8/4/95	8/14/95		8/14/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/4/95	8/16/95		8/18/95
SW7421 - Lead	AAZ3__508151509	GFAA Digestion	GDIG950810070000		8/4/95	8/10/95		8/15/95
SW8270 - Semivolatile Organics	MSMSD2508101313	Continuous Liquid-Liquid Extraction	3520950808161000		8/4/95	8/8/95		8/10/95
Sample ID : G95-SE-MW-AB-01 AB								
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/9/95	8/15/95		8/15/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/9/95			8/16/95
Sample ID : G95-SE-MW-TB-01 TB								
AK101 - Gasoline Range Organics	BH151.04	Extraction method identified by analytical method.	BH151.04		8/9/95	8/15/95		8/15/95
SW8260 - Volatile Organic Compounds	MSMSDB508152034	NONE			8/9/95			8/16/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-13-SS-01								
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
Sample ID : G95-13-SS-01 MS								
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-01 MSD								
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-01 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/9/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-13-SS-01 ND								
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
Sample ID : G95-13-SS-02								
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
Sample ID : G95-13-SS-02 MS								
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
Sample ID : G95-13-SS-02 MSD								
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-13-SS-02 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/11/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-02 PS								
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
Sample ID : G95-13-SS-03 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/9/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-04 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/10/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-04-EB EB								
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/8/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-13-SS-05 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/9/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/8/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-13-SS-06 MS								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
Sample ID : G95-13-SS-06 MSD								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-13-SS-06 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/26/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/26/95	8/7/95		8/9/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/26/95			8/1/95
SW6010 - Metals	EMJA61508021030	SW6010 trace digestion - soil	IDIG950801090000		7/26/95	8/1/95		8/2/95
SW7060 - Arsenic	AAZ4__508141000	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/17/95
SW7740 - Selenium	AAZ3__508141500	GFAA - Digestion	GDIG950809140000		7/26/95	8/9/95		8/14/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7A508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8080 - Organochlorine Pesticides and PCBs	CHGC7B508101200	Soxhlet extraction	3540950802110000		7/26/95	8/2/95		8/11/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/7/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/26/95			8/8/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/26/95	8/3/95		8/9/95
Sample ID : G95-SE-MW-02-02 MS								
AK101 - Gasoline Range Organics	BG111.05	Extraction method identified by analytical method.	BG111.05		8/3/95	8/11/95		8/11/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/3/95	8/16/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/3/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/3/95	8/11/95		8/15/95
Sample ID : G95-SE-MW-02-02 MSD								
AK101 - Gasoline Range Organics	BG111.05	Extraction method	BG111.05		8/3/95	8/11/95		8/11/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		identified by analytical method.						
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/3/95	8/16/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/3/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/3/95	8/11/95		8/15/95
Sample ID : G95-SE-MW-02-02 N								
AK101 - Gasoline Range Organics	BG111.05	Extraction method identified by analytical method.	BG111.05		8/3/95	8/11/95		8/11/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/3/95	8/16/95		8/17/95
ASTMD2216 - Modified	EXMSRS508090950	NONE			8/3/95			8/9/95
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/3/95	8/10/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/3/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/3/95	8/11/95		8/15/95
Sample ID : G95-SE-MW-03-02 N								
AK101 - Gasoline Range Organics	BG111.05	Extraction method identified by analytical method.	BG111.05		8/3/95	8/11/95		8/11/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/3/95	8/16/95		8/17/95
ASTMD2216 - Modified	EXMSRS508090950	NONE			8/3/95			8/9/95
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/3/95	8/10/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/3/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/3/95	8/11/95		8/15/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-SE-MW-03-02 ND								
ASTMD2216 - Modified	EXMSRS508090950	NONE			8/3/95			8/9/95
Sample ID : G95-SE-MW-04-02 N								
AK101 - Gasoline Range Organics	BG111.05	Extraction method identified by analytical method.	BG111.05		8/4/95	8/11/95		8/11/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/4/95	8/16/95		8/17/95
ASTMD2216 - Modified	EXMSRS508090950	NONE			8/4/95			8/9/95
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/4/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/4/95	8/11/95		8/15/95
Sample ID : G95-SE-MW-04-02-EB EB								
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/4/95			8/15/95
Sample ID : G95-SE-SB-01-01 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/25/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/11/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/8/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-SE-SB-01-02 MS								
SW8240 - Volatile Organics	MSMSDA508081350	METHOD			7/25/95			8/8/95
Sample ID : G95-SE-SB-01-02 MSD								
SW8240 - Volatile Organics	MSMSDA508081350	METHOD			7/25/95			8/8/95
Sample ID : G95-SE-SB-01-02 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/25/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/14/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8240 - Volatile Organics	MSMSDA508081350	METHOD			7/25/95			8/8/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95
Sample ID : G95-SE-SB-02-01 MS								
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/9/95		8/11/95
Sample ID : G95-SE-SB-02-01 MSD								
AK102 - Diesel Range Organics	BH091.21	Extraction method	BH091.21		7/25/95	8/9/95		8/16/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		identified by analytical method.						
Sample ID : G95-SE-SB-02-01 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/25/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/11/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/8/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95
Sample ID : G95-SE-SB-02-02 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/25/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/16/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95
Sample ID : G95-SE-SB-03-01 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical	BH031.05		7/25/95	8/3/95		8/3/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
		method.						
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/11/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/8/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95
Sample ID : G95-SE-SB-03-02 N								
AK101 - Gasoline Range Organics	BH031.05	Extraction method identified by analytical method.	BH031.05		7/25/95	8/3/95		8/3/95
AK102 - Diesel Range Organics	BH091.21	Extraction method identified by analytical method.	BH091.21		7/25/95	8/7/95		8/11/95
ASTMD2216 - Modified	EXMSRS508010905	NONE			7/25/95			8/1/95
SW7421 - Lead	AAZ1__508171130	GFAA - Digestion	GDIG950809140000		7/25/95	8/9/95		8/17/95
SW8240 - Volatile Organics	MSMSDA508071307	METHOD			7/25/95			8/7/95
SW8270 - Semivolatile Organics	MSMSD2508091100	Soxhlet Extraction	3540950803151500		7/25/95	8/3/95		8/9/95
Sample ID : G95-SE-SS-01								
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95
Sample ID : G95-SE-SS-01 MS								
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95

TABLE D-2 DATE AND BATCH SUMMARY, SOIL SAMPLES, GALENA 1995

ANALYTICAL METHOD	ANALYTICAL BATCH ID	PREPARATION METHOD	PREPARATION BATCH ID	LEACHATE BATCH ID	DATE COLLECTED	DATE PREPARED	DATE LEACHED	DATE ANALYZED
Sample ID : G95-SE-SS-01 MSD								
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95
Sample ID : G95-SE-SS-01 N								
AK101 - Gasoline Range Organics	BG111.05	Extraction method identified by analytical method.	BG111.05		8/4/95	8/11/95		8/11/95
AK102 - Diesel Range Organics	BH161.21	Extraction method identified by analytical method.	BH161.21		8/4/95	8/16/95		8/17/95
ASTMD2216 - Modified	EXMSRS508090950	NONE			8/4/95			8/9/95
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95
SW8240 - Volatile Organics	MSMSDA508151311	METHOD			8/4/95			8/15/95
SW8270 - Semivolatile Organics	MSMSD1508150837	Soxhlet Extraction	3540950811151500		8/4/95	8/11/95		8/15/95
Sample ID : G95-SE-SS-01 PS								
SW7421 - Lead	AAZ1__508160800	GFAA - Digestion	GDIG950810080000		8/4/95	8/10/95		8/16/95

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Ambient Blank						
08/15/95	G95-SE-MW-AB-01	BH151.04NA	ND	50.0	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Method Blank						
08/15/95	Method Blank	BH151.04NA	ND	50.0	ug/L	1
08/16/95	Method Blank	BH151.04NA	ND	50.0	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Trip Blank						
08/15/95	G95-SE-MW-TB-01	BH151.04NA	ND	50.0	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Equipment Blank						
07/26/95	G95-SE-GP-02-EB	BG261.02NA	ND	100	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		100	
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Method Blank						
07/26/95	Method Blank	BG261.02NA	ND	50.0	ug/L	1
08/02/95	Method Blank	BH011.21NA	ND	50.0	ug/L	1
08/22/95	Method Blank	BH221.02NA	ND	100	ug/L	1
Total Number of Blanks = 3			Concentration Range:		NC	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Method Blank, cont.						
Total Number above Detection Limit = 0			Maximum Detection Limit = 100			
Method : SW6010 - Metals						
Analyte : Aluminum						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.0197 (J)	0.0523	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.0197 - 0.0197			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0523			
Method : SW6010 - Metals						
Analyte : Antimony						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.134 (J)	0.0760	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.134 - -0.134			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0760			
Method : SW6010 - Metals						
Analyte : Arsenic						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.0537 (J)	0.0468	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.0537 - -0.0537			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0468			
Method : SW6010 - Metals						
Analyte : Barium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.00 (J)	0.000860	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.00 - 0.00			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.000860			

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Beryllium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.000280 (J)	0.000510	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000280 - 0.000280		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000510		
Method : SW6010 - Metals						
Analyte : Cadmium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.00494	0.00386	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00494 - 0.00494		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00386		
Method : SW6010 - Metals						
Analyte : Calcium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.0193	0.0175	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0193 - 0.0193		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.0175		
Method : SW6010 - Metals						
Analyte : Chromium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.00103 (J)	0.00524	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.00103 - -0.00103		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00524		
Method : SW6010 - Metals						
Analyte : Cobalt						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.00177 (J)	0.00407	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.00177 - -0.00177		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00407		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Copper						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.00255 (J)	0.00916	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.00255 -	-0.00255	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00916		
Method : SW6010 - Metals						
Analyte : Iron						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.00635	0.00452	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00635 -	0.00635	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00452		
Method : SW6010 - Metals						
Analyte : Lead						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.0614 (J)	0.0216	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0614 -	-0.0614	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0216		
Method : SW6010 - Metals						
Analyte : Magnesium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.0201 (J)	0.0479	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0201 -	-0.0201	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0479		
Method : SW6010 - Metals						
Analyte : Manganese						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.00422	0.00155	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00422 -	0.00422	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00155		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Molybdenum						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.0184 (J)	0.00739	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0184 -	-0.0184	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00739		
Method : SW6010 - Metals						
Analyte : Nickel						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.000990 (J)	0.0141	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.000990 -	-0.000990	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0141		
Method : SW6010 - Metals						
Analyte : Potassium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.521 (J)	0.822	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.521 -	-0.521	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.822		
Method : SW6010 - Metals						
Analyte : Selenium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.0000100 (J)	0.0891	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0000100 -	0.0000100	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0891		
Method : SW6010 - Metals						
Analyte : Silver						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.000800 (J)	0.00519	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000800 -	0.000800	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00519		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Sodium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.0773	0.0401	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0773 -	0.0773	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.0401		
Method : SW6010 - Metals						
Analyte : Thallium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.0225 (J)	0.0833	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0225 -	-0.0225	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0833		
Method : SW6010 - Metals						
Analyte : Vanadium						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	-0.00497 (J)	0.00454	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.00497 -	-0.00497	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00454		
Method : SW6010 - Metals						
Analyte : Zinc						
Type of Blank : Method Blank						
08/17/95	BLK953628	EMJA6150817143001	0.000100 (J)	0.00402	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000100 -	0.000100	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00402		
Method : SW7421 - Lead						
Analyte : Lead						
Type of Blank : Method Blank						
08/18/95	BLK953627	AAZ4__50818131101	0.000630 (J)	0.000957	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000630 -	0.000630	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000957		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1,2-Tetrachloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.133	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.133	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1,2-Tetrachloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.133	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.133	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1,2-Tetrachloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.133	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.133	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1-Trichloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.120	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.120	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1-Trichloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.120	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.120	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,1-Trichloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.120	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.120	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2,2-Tetrachloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0708	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0708	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2,2-Tetrachloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0708	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0708	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2,2-Tetrachloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0708	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0708	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2-Trichloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0678	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0678	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2-Trichloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0678	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0678	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1,2-Trichloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0678	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0678	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0646	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0646	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0646	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0646	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0646	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0646	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,1-Dichloroethene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2,3-Trichloropropane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0902	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0902	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2,3-Trichloropropane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0902	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0902	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2,3-Trichloropropane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0902	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0902	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.182	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.182	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.182	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.182	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.182	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.182	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0481	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0481	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0481	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0481	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0481	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0481	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloropropane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0440	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0440	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloropropane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0440	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0440	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,2-Dichloropropane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0440	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0440	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.228	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.228	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.228	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.228	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.228	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.228	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.216	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.216	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.216	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.216	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.216	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.216	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1-Chlorohexane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.357	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.357	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1-Chlorohexane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.357	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.357	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 1-Chlorohexane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.357	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.357	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Butanone(MEK)						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	1.29	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.29	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Butanone(MEK)						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	1.29	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.29	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Butanone(MEK)						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	3.66	1.29	ug/L	1
Total Number of Blanks = 1			Concentration Range:		3.66 - 3.66	
Total Number above Detection Limit = 1			Maximum Detection Limit =		1.29	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Chloroethyl vinyl ether						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Chloroethyl vinyl ether						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Chloroethyl vinyl ether						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Hexanone						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.347	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.347	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Hexanone						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.347	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.347	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 2-Hexanone						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.347	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.347	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 4-Methyl-2-Pentanone(MIBK)						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.316	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.316	
Method : SW8260 - Volatile Organic Compounds						
Analyte : 4-Methyl-2-Pentanone(MIBK)						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.316	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.316	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : 4-Methyl-2-Pentanone(MIBK)						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.316	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.316		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Acetone						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	4.25	2.30	ug/L	1
Total Number of Blanks = 1			Concentration Range:	4.25 - 4.25		
Total Number above Detection Limit = 1			Maximum Detection Limit =	2.30		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Acetone						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	2.30	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	2.30		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Acetone						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	12.5	2.30	ug/L	1
Total Number of Blanks = 1			Concentration Range:	12.5 - 12.5		
Total Number above Detection Limit = 1			Maximum Detection Limit =	2.30		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Benzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.0306 (J)	0.122	ug/L	1
Total Number of Blanks = 1			Concentration Range:	0.0306 - 0.0306		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.122		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Benzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.122	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.122	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Benzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.0265 (J)	0.122	ug/L	1
Total Number of Blanks = 1			Concentration Range:		0.0265 - 0.0265	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.122	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromobenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.167	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.167	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.167	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.167	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromobenzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.167	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.167	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromodichloromethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0462	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0462	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromodichloromethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0462	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0462	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromodichloromethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0462	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0462	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromoform						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.136	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.136	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromoform						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.136	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.136	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromoform						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.136	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.136	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromomethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0500	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0500	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromomethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0500	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0500	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Bromomethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0500	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0500	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon disulfide						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.190	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.190	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon disulfide						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.190	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.190	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon disulfide						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.190	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.190	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon tetrachloride						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon tetrachloride						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Carbon tetrachloride						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.131	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.131	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chlorobenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.205	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.205	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.205	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.205	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chlorobenzene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.205	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.205	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0898	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0898	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0898	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0898	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0898	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0898	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroform						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.147	0.0985	ug/L	1
Total Number of Blanks = 1			Concentration Range:		0.147 - 0.147	
Total Number above Detection Limit = 1			Maximum Detection Limit =		0.0985	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroform						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0985	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0985	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloroform						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0985	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0985	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloromethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0893	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0893	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloromethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0893	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0893	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Chloromethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0893	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0893	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromochloromethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0870	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0870	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromochloromethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0870	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0870	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromochloromethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0870	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0870	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromomethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.222 (B)	0.107	ug/L	1
Total Number of Blanks = 1			Concentration Range:	0.222 - 0.222		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.107		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromomethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	0.178	0.107	ug/L	1
Total Number of Blanks = 1			Concentration Range:	0.178 - 0.178		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.107		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Dibromomethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.235 (B)	0.107	ug/L	1
Total Number of Blanks = 1			Concentration Range:	0.235 - 0.235		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.107		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Ethylbenzene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.246	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.246		
Method : SW8260 - Volatile Organic Compounds						
Analyte : Ethylbenzene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.246	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.246		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
	Method : SW8260 - Volatile Organic Compounds					
	Analyte : Ethylbenzene					
	Type of Blank : Trip Blank					
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.246	ug/L	1
	Total Number of Blanks = 1		Concentration Range:	NC		
	Total Number above Detection Limit = 0		Maximum Detection Limit =	0.246		
	Method : SW8260 - Volatile Organic Compounds					
	Analyte : Methylene chloride					
	Type of Blank : Ambient Blank					
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.677 (B)	0.423	ug/L	1
	Total Number of Blanks = 1		Concentration Range:	0.677 - 0.677		
	Total Number above Detection Limit = 1		Maximum Detection Limit =	0.423		
	Method : SW8260 - Volatile Organic Compounds					
	Analyte : Methylene chloride					
	Type of Blank : Method Blank					
08/15/95	BLK953528	MSMSDB50815203401	0.202 (J)	0.423	ug/L	1
	Total Number of Blanks = 1		Concentration Range:	0.202 - 0.202		
	Total Number above Detection Limit = 0		Maximum Detection Limit =	0.423		
	Method : SW8260 - Volatile Organic Compounds					
	Analyte : Methylene chloride					
	Type of Blank : Trip Blank					
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.353 (BJ)	0.423	ug/L	1
	Total Number of Blanks = 1		Concentration Range:	0.353 - 0.353		
	Total Number above Detection Limit = 0		Maximum Detection Limit =	0.423		
	Method : SW8260 - Volatile Organic Compounds					
	Analyte : Styrene					
	Type of Blank : Ambient Blank					
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.184	ug/L	1
	Total Number of Blanks = 1		Concentration Range:	NC		
	Total Number above Detection Limit = 0		Maximum Detection Limit =	0.184		

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Styrene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.184	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.184	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Styrene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.184	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.184	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Tetrachloroethene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.663	0.420	ug/L	1
Total Number of Blanks = 1			Concentration Range:		0.663 - 0.663	
Total Number above Detection Limit = 1			Maximum Detection Limit =		0.420	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Tetrachloroethene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.420	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.420	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Tetrachloroethene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.596	0.420	ug/L	1
Total Number of Blanks = 1			Concentration Range:		0.596 - 0.596	
Total Number above Detection Limit = 1			Maximum Detection Limit =		0.420	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Toluene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	0.0415 (J)	0.163	ug/L	1
Total Number of Blanks = 1			Concentration Range: 0.0415 - 0.0415			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.163			
Method : SW8260 - Volatile Organic Compounds						
Analyte : Toluene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.163	ug/L	1
Total Number of Blanks = 1			Concentration Range: NC			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.163			
Method : SW8260 - Volatile Organic Compounds						
Analyte : Toluene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.0434 (J)	0.163	ug/L	1
Total Number of Blanks = 1			Concentration Range: 0.0434 - 0.0434			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.163			
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichloroethene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.197	ug/L	1
Total Number of Blanks = 1			Concentration Range: NC			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.197			
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichloroethene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	0.0584 (J)	0.197	ug/L	1
Total Number of Blanks = 1			Concentration Range: 0.0584 - 0.0584			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.197			

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichloroethene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.197	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.197	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichlorofluoromethane						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0999	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0999	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichlorofluoromethane						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0999	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0999	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Trichlorofluoromethane						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	0.122	0.0999	ug/L	1
Total Number of Blanks = 1			Concentration Range:		0.122 - 0.122	
Total Number above Detection Limit = 1			Maximum Detection Limit =		0.0999	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl acetate						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.381	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.381	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl acetate						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.381	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.381	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl acetate						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.381	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.381	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl chloride						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0697	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0697	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl chloride						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0697	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0697	
Method : SW8260 - Volatile Organic Compounds						
Analyte : Vinyl chloride						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0697	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0697	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,2-Dichloroethene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.104	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.104	
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,2-Dichloroethene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.104	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.104	
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,2-Dichloroethene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.104	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.104	
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,3-Dichloropropene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.116	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.116	
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,3-Dichloropropene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.116	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.116	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : cis-1,3-Dichloropropene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.116	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.116	
Method : SW8260 - Volatile Organic Compounds						
Analyte : m&p-Xylenes						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.554	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.554	
Method : SW8260 - Volatile Organic Compounds						
Analyte : m&p-Xylenes						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.554	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.554	
Method : SW8260 - Volatile Organic Compounds						
Analyte : m&p-Xylenes						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.554	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.554	
Method : SW8260 - Volatile Organic Compounds						
Analyte : o-Xylene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.207	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.207	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : o-Xylene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.207	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.207	
Method : SW8260 - Volatile Organic Compounds						
Analyte : o-Xylene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.207	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.207	
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,2-Dichloroethene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,2-Dichloroethene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,2-Dichloroethene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.212	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.212	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,3-Dichloropropene						
Type of Blank : Ambient Blank						
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	ND	0.0724	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0724	
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,3-Dichloropropene						
Type of Blank : Method Blank						
08/15/95	BLK953528	MSMSDB50815203401	ND	0.0724	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0724	
Method : SW8260 - Volatile Organic Compounds						
Analyte : trans-1,3-Dichloropropene						
Type of Blank : Trip Blank						
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	ND	0.0724	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0724	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2,4-Trichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.996	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.996	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.977	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.977	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.04	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.04	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.01	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.01	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,5-Trichlorophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.812	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.812	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,6-Trichlorophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.976	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.976	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dichlorophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.09	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.09	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dimethylphenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.03	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.03	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	2.59	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.59	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrotoluene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.991	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.991	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,6-Dinitrotoluene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.805	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.805	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chloronaphthalene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.796	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.796	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
	Method : SW8270 - Semivolatile Organics					
	Analyte : 2-Chlorophenol					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.799	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.799	
	Method : SW8270 - Semivolatile Organics					
	Analyte : 2-Methylnaphthalene					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.924	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.924	
	Method : SW8270 - Semivolatile Organics					
	Analyte : 2-Methylphenol					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.700	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.700	
	Method : SW8270 - Semivolatile Organics					
	Analyte : 2-Nitroaniline					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.951	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.951	
	Method : SW8270 - Semivolatile Organics					
	Analyte : 2-Nitrophenol					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.884	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.884	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 3,3'-Dichlorobenzidine						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.647	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.647	
Method : SW8270 - Semivolatile Organics						
Analyte : 3-Nitroaniline						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.08	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.08	
Method : SW8270 - Semivolatile Organics						
Analyte : 4,6-Dinitro-2-methylphenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.06	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.06	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Bromophenyl phenyl ether						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	6.08	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		6.08	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chloro-3-methylphenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.866	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.866	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chlorophenyl phenyl ether						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.985	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.985	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Methylphenol/3-Methylphenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.753	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.753	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitroaniline						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.20	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.20	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitrophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.36	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.36	
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.01	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.01	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthylene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.880	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.880	
Method : SW8270 - Semivolatile Organics						
Analyte : Anthracene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.751	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.751	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)anthracene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.762	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.762	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)pyrene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.585	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.585	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(b)fluoranthene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.698	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.698	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(g,h,i)perylene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.676	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.676	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(k)fluoranthene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.16	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.16	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzoic acid						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	6.03	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		6.03	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzyl alcohol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.642	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.642	
Method : SW8270 - Semivolatile Organics						
Analyte : Butylbenzylphthalate						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.962	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.962	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Chrysene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.858	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.858	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-butylphthalate						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.873	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.873	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-octylphthalate						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.397	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.397	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenz(a,h)anthracene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.648	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.648	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenzofuran						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.865	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.865	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
		Method : SW8270 - Semivolatile Organics				
		Analyte : Diethylphthalate				
		Type of Blank : Method Blank				
08/15/95	BLK953609	MSMSD250815084902	ND	0.962	ug/L	1
		Total Number of Blanks = 1		Concentration Range:		NC
		Total Number above Detection Limit = 0		Maximum Detection Limit =		0.962
		Method : SW8270 - Semivolatile Organics				
		Analyte : Dimethylphthalate				
		Type of Blank : Method Blank				
08/15/95	BLK953609	MSMSD250815084902	ND	0.808	ug/L	1
		Total Number of Blanks = 1		Concentration Range:		NC
		Total Number above Detection Limit = 0		Maximum Detection Limit =		0.808
		Method : SW8270 - Semivolatile Organics				
		Analyte : Diphenylamine (N-Nitrosodiphenylamine)				
		Type of Blank : Method Blank				
08/15/95	BLK953609	MSMSD250815084902	ND	0.960	ug/L	1
		Total Number of Blanks = 1		Concentration Range:		NC
		Total Number above Detection Limit = 0		Maximum Detection Limit =		0.960
		Method : SW8270 - Semivolatile Organics				
		Analyte : Fluoranthene				
		Type of Blank : Method Blank				
08/15/95	BLK953609	MSMSD250815084902	ND	0.751	ug/L	1
		Total Number of Blanks = 1		Concentration Range:		NC
		Total Number above Detection Limit = 0		Maximum Detection Limit =		0.751
		Method : SW8270 - Semivolatile Organics				
		Analyte : Fluorene				
		Type of Blank : Method Blank				
08/15/95	BLK953609	MSMSD250815084902	ND	1.04	ug/L	1
		Total Number of Blanks = 1		Concentration Range:		NC
		Total Number above Detection Limit = 0		Maximum Detection Limit =		1.04

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.656	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.656	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobutadiene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.45	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.45	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorocyclopentadiene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	2.26	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.26	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachloroethane						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.02	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.02	
Method : SW8270 - Semivolatile Organics						
Analyte : Indeno(1,2,3-cd)pyrene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.551	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.551	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Isophorone						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.770	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.770	
Method : SW8270 - Semivolatile Organics						
Analyte : N-Nitroso-di-n-propylamine						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.896	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.896	
Method : SW8270 - Semivolatile Organics						
Analyte : Naphthalene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	1.00	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.00	
Method : SW8270 - Semivolatile Organics						
Analyte : Nitrobenzene						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.756	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.756	
Method : SW8270 - Semivolatile Organics						
Analyte : Pentachlorophenol						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.834	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.834	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
	Method : SW8270 - Semivolatile Organics					
	Analyte : Phenanthrene					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.932	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.932	
	Method : SW8270 - Semivolatile Organics					
	Analyte : Phenol					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.416	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.416	
	Method : SW8270 - Semivolatile Organics					
	Analyte : Pyrene					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.858	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.858	
	Method : SW8270 - Semivolatile Organics					
	Analyte : bis(2-Chloroethoxy)methane					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.967	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.967	
	Method : SW8270 - Semivolatile Organics					
	Analyte : bis(2-Chloroethyl)ether					
	Type of Blank : Method Blank					
08/15/95	BLK953609	MSMSD250815084902	ND	0.857	ug/L	1
	Total Number of Blanks = 1		Concentration Range:		NC	
	Total Number above Detection Limit = 0		Maximum Detection Limit =		0.857	

TABLE D-3 DETAILED LISTING OF LIQUID BLANKS RESULTS - WATER SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroisopropyl)ether						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.891	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.891	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Ethylhexyl)phthalate						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.731	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.731	
Method : SW8270 - Semivolatile Organics						
Analyte : p-Chloroaniline						
Type of Blank : Method Blank						
08/15/95	BLK953609	MSMSD250815084902	ND	0.963	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.963	

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Gasoline							
Type of Spike : Laboratory Control							
08/15/95	LCS	BH151.04NA	NA	2000	2100	ug/L	105
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Gasoline							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	BH151.04NA	15.0	2000	2000	ug/L	100
08/15/95	G95-SE-MW-03-01	BH151.04NA	15.0	2000	1800	ug/L	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 95.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : 4-Bromofluorobenzene (SS)							
Type of Spike : Surrogate - Ambient Blank							
08/15/95	G95-SE-MW-AB-01	BH151.04NA	NA	100	97.0	ug/L	97.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 97.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : 4-Bromofluorobenzene (SS)							
Type of Spike : Surrogate - Field Duplicate							

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics Spiked Analyte : 4-Bromofluorobenzene (SS) Type of Spike : Surrogate - Field Duplicate, cont.							
08/15/95	G95-SE-MW-01-FD-01	BH151.04NA	NA	100	133	ug/L	133
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 133			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-150				
Method : AK101 - Gasoline Range Organics Spiked Analyte : 4-Bromofluorobenzene (SS) Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS	BH151.04NA	NA	100	129	ug/L	129
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 129			Above acceptance : 1				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics Spiked Analyte : 4-Bromofluorobenzene (SS) Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	BH151.04NA	NA	100	114	ug/L	114
08/15/95	G95-SE-MW-03-01	BH151.04NA	NA	100	114	ug/L	114
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 114			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-150				
Method : AK101 - Gasoline Range Organics Spiked Analyte : 4-Bromofluorobenzene (SS) Type of Spike : Surrogate - Method Blank							

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : 4-Bromofluorobenzene (SS)							
Type of Spike : Surrogate - Method Blank, cont.							
08/15/95	Method Blank	BH151.04NA	NA	100	95.0	ug/L	95.0
08/16/95	Method Blank	BH151.04NA	NA	100	119	ug/L	119
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : 4-Bromofluorobenzene (SS)							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	BH151.04NA	NA	100	111	ug/L	111
08/15/95	G95-SE-MW-03-01	BH151.04NA	NA	100	90.0	ug/L	90.0
08/15/95	G95-SE-MW-04-01	BH151.04NA	NA	100	95.0	ug/L	95.0
08/16/95	G95-SE-MW-02-01	BH151.04NA	NA	100	94.0	ug/L	94.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : 9.26			Acceptance Criteria 50-150				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : 4-Bromofluorobenzene (SS)							
Type of Spike : Surrogate - Trip Blank							
08/15/95	G95-SE-MW-TB-01	BH151.04NA	NA	100	73.0	ug/L	73.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 73.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Diesel							
Type of Spike : Laboratory Control							
07/26/95	LCS	BG261.02NA	NA	2000	1392	ug/L	70.0
07/26/95	LCSD	BG261.02NA	NA	2000	1643	ug/L	82.0
08/02/95	LCS	BH011.21NA	NA	2000	1919	ug/L	96.0
08/02/95	LCSD	BH011.21NA	NA	2000	2155	ug/L	108

Number of Samples	: 4	Below acceptance :	1
Mean % Recovery	: 89.0	Above acceptance :	0
Standard Deviation	: 16.5	Acceptance Criteria	75-125

Method : AK102 - Diesel Range Organics							
Spiked Analyte : Diesel							
Type of Spike : Matrix Spike							
08/23/95	G95-SE-MW-03-01	BH221.02NA	710	2000	15.0 (J)	ug/L	120
08/23/95	G95-SE-MW-03-01	BH221.02NA	710	2000	15.0 (J)	ug/L	1

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 128	Above acceptance :	1
Standard Deviation	: NC	Acceptance Criteria	60-120

Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Equipment Blank							
07/26/95	G95-SE-GP-02-EB	BG261.02NA	NA	100	110	ug/L	110

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	60-120

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Field Duplicate							
07/26/95	G95-SE-GP-01-FD	BG261.02NA	NA	100	84.0	ug/L	84.0
08/23/95	G95-SE-MW-01-FD-01	BH221.02NA	NA	100	111	ug/L	111
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-150				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Laboratory Control							
07/26/95	LCS	BG261.02NA	NA	100	134	ug/L	134
07/26/95	LCSD	BG261.02NA	NA	100	144	ug/L	144
08/02/95	LCS	BH011.21NA	NA	100	151	ug/L	151
08/02/95	LCSD	BH011.21NA	NA	100	159	ug/L	159
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 147			Above acceptance : 4				
Standard Deviation : 10.6			Acceptance Criteria 60-120				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Matrix Spike							
08/23/95	G95-SE-MW-03-01	BH221.02NA	NA	100	112	ug/L	112
08/23/95	G95-SE-MW-03-01	BH221.02NA	NA	100	110	ug/L	110
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 111			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-150				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Method Blank							
07/26/95	Method Blank	BG261.02NA	NA	100	88.0	ug/L	88.0
08/02/95	Method Blank	BH011.21NA	NA	100	136	ug/L	136
08/22/95	Method Blank	BH221.02NA	NA	100	126	ug/L	126
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 117			Above acceptance : 2				
Standard Deviation : 25.3			Acceptance Criteria 60-120				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Normal Sample							
07/26/95	G95-SE-GP-01	BG261.02NA	NA	100	77.0	ug/L	77.0
07/26/95	G95-SE-GP-02	BG261.02NA	NA	100	137	ug/L	137
07/26/95	G95-SE-GP-03	BG261.02NA	NA	100	96.0	ug/L	96
07/26/95	G95-SE-GP-04	BG261.02NA	NA	100	89.0	ug/L	89
07/26/95	G95-SE-GP-05	BG261.02NA	NA	100	127	ug/L	127
07/26/95	G95-SE-GP-06	BG261.02NA	NA	100	99.0	ug/L	99.0
08/02/95	G95-SE-GP-07	BH011.21NA	NA	100	137	ug/L	137
08/02/95	G95-SE-GP-08	BH011.21NA	NA	100	136	ug/L	136
08/02/95	G95-SE-GP-09	BH011.21NA	NA	100	129	ug/L	129
08/02/95	G95-SE-GP-10	BH011.21NA	NA	100	149	ug/L	149
08/23/95	G95-SE-MW-01-01	BH221.02NA	NA	100	243 (i)	ug/L	DO
08/23/95	G95-SE-MW-02-01	BH221.02NA	NA	100	770	ug/L	115
08/23/95	G95-SE-MW-03-01	BH221.02NA	NA	100	710	ug/L	100
08/24/95	G95-SE-MW-04-01	BH221.02NA	NA	100	96.0	ug/L	96.0
Number of Samples : 14			Below acceptance : 0				
Mean % Recovery : 114			Above acceptance : 0				
Standard Deviation : 22.8			Acceptance Criteria 50-150				
Method : SW6010 - Metals							
Spiked Analyte : Aluminum							
Type of Spike : Laboratory Control							

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Aluminum							
Type of Spike : Laboratory Control, cont.							
08/17/95	LCS955596	EMJA6150817143001	NA	10.0	9.27	mg/L	93.0
08/17/95	LCSD955596	EMJA6150817143001	NA	10.0	9.46	mg/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Aluminum							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.000930	10.0	9.54	mg/L	95.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.000930	10.0	9.34	mg/L	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Antimony							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	1.00	mg/L	100
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	1.14	mg/L	114

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Antimony							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.103	1.00	0.901	mg/L	100
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.103	1.00	1.03	mg/L	113
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.960	mg/L	96.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.921	mg/L	92.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.0326	1.00	0.809	mg/L	84.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.0326	1.00	0.912	mg/L	94.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Barium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.947	mg/L	95.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.964	mg/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Barium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.197	1.00	1.13	mg/L	94.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.197	1.00	1.11	mg/L	91.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 92.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Beryllium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.988	mg/L	99.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.999	mg/L	100

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Beryllium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.000250	1.00	0.989	mg/L	99.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.000250	1.00	0.961	mg/L	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Cadmium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.952	mg/L	95.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.956	mg/L	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 95.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Cadmium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00323	1.00	0.936	mg/L	93.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00323	1.00	0.917	mg/L	91.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	10.0	9.46	mg/L	95.0
08/17/95	LCSD955596	EMJA6150817143001	NA	10.0	9.55	mg/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	87.6	10.0	92.9	mg/L	52.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	87.6	10.0	97.9	mg/L	103

Number of Samples	: 2	Below acceptance :	1
Mean % Recovery	: 77.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Chromium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.942	mg/L	94.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.958	mg/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Chromium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00175	1.00	0.917	mg/L	92.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00175	1.00	0.889	mg/L	89.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 90.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.929	mg/L	93.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.947	mg/L	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00	1.00	0.901	mg/L	90.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00	1.00	0.892	mg/L	89.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Copper							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.958	mg/L	96.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.970	mg/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Copper							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00714	1.00	0.933	mg/L	93.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00714	1.00	0.950	mg/L	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	10.0	9.81	mg/L	98.0
08/17/95	LCSD955596	EMJA6150817143001	NA	10.0	9.94	mg/L	99.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0107	10.0	9.42	mg/L	94.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0107	10.0	9.64	mg/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.906	mg/L	91.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.888	mg/L	89.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 90.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Lead							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.0920	1.00	0.810	mg/L	90.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.0920	1.00	0.871	mg/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	10.0	9.47	mg/L	95.0
08/17/95	LCSD955596	EMJA6150817143001	NA	10.0	9.57	mg/L	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 95.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	9.68	10.0	18.6	mg/L	89.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	9.68	10.0	19.2	mg/L	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Manganese							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.959	mg/L	96.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.968	mg/L	97.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals Spiked Analyte : Manganese Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0272	1.00	0.929	mg/L	90.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0272	1.00	0.947	mg/L	92.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals Spiked Analyte : Molybdenum Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.907	mg/L	91.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.898	mg/L	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 90.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals Spiked Analyte : Molybdenum Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00652	1.00	0.860	mg/L	85.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00652	1.00	0.884	mg/L	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 86.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Nickel							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.951	mg/L	95.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.945	mg/L	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Nickel							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.00697	1.00	0.917	mg/L	92.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.00697	1.00	0.892	mg/L	90.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Potassium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	20.0	19.2	mg/L	96.0
08/17/95	LCSD955596	EMJA6150817143001	NA	20.0	19.7	mg/L	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Potassium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	9.05	20.0	28.0	mg/L	94.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	9.05	20.0	27.6	mg/L	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Selenium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.914	mg/L	91.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.878	mg/L	88.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 89.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Selenium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0510	1.00	0.804	mg/L	75.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0510	1.00	0.957	mg/L	91.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 83.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.940	mg/L	94.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.942	mg/L	94.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.000820	1.00	0.927	mg/L	93.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	-0.000820	1.00	0.900	mg/L	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Sodium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	10.0	9.70	mg/L	97.0
08/17/95	LCSD955596	EMJA6150817143001	NA	10.0	10.0	mg/L	100
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Sodium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	1.43	10.0	11.3	mg/L	98.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	1.43	10.0	10.9	mg/L	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Thallium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	1.01	mg/L	101
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.991	mg/L	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Thallium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0340	1.00	0.822	mg/L	79.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0340	1.00	0.924	mg/L	89.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 84.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Vanadium							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.944	mg/L	94.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.949	mg/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Vanadium							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0000300	1.00	0.905	mg/L	91.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.0000300	1.00	0.927	mg/L	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 92.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Laboratory Control							
08/17/95	LCS955596	EMJA6150817143001	NA	1.00	0.957	mg/L	96.0
08/17/95	LCSD955596	EMJA6150817143001	NA	1.00	0.957	mg/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Matrix Spike							
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00	1.00	0.953	mg/L	95.0
08/17/95	G95-SE-MW-03-01	EMJA6150817143001	0.00	1.00	0.934	mg/L	93.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/18/95	LCS955595	AAZ4__50818131101	NA	0.0500	0.0466	mg/L	93.0
08/18/95	LCSD955595	AAZ4__50818131101	NA	0.0500	0.0456	mg/L	91.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Matrix Spike							
08/18/95	G95-SE-MW-03-01	AAZ4__50818131101	-0.000190	0.0500	0.0469	mg/L	94.0
08/18/95	G95-SE-MW-03-01	AAZ4__50818131101	-0.000190	0.0500	0.0467	mg/L	94.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1,1-Trichloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.70	ug/L	85.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.72	ug/L	101

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	58-144

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1,2,2-Tetrachloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.95	ug/L	104
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.33	ug/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	60-134

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1,2-Trichloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.64	ug/L	100
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.34	ug/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	68-122

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1-Dichloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.83	ug/L	87.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.70	ug/L	101
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 65-131				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1-Dichloroethene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.28	ug/L	79.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.36	ug/L	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 87.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 51-133				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,1-Dichloroethene							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	11.6	ug/L	69.0
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	12.0	ug/L	72.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 70.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 51-133				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.94	ug/L	89.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.49	ug/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	68-138

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloropropane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.38	ug/L	96.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.16	ug/L	92.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	77-119

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 2-Butanone(MEK)							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	33.3	17.4	ug/L	52.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	33.3	18.2	ug/L	55.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 53.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-160

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 2-Chloroethyl vinyl ether							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.66	ug/L	100
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	5.96	ug/L	89.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 2-Hexanone							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	33.3	30.4	ug/L	91.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	33.3	27.3	ug/L	82.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 86.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	58-140

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 4-Methyl-2-Pentanone(MIBK)							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	33.3	33.3	ug/L	100
08/16/95	LCSD955448	MSMSDB50815203401	NA	33.3	28.5	ug/L	86.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	58-142

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Acetone							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	33.3	14.0	ug/L	42.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	33.3	15.7	ug/L	47.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 44.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	3-127

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Benzene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.75	ug/L	101
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.74	ug/L	101

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	74-132

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Benzene							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	16.3	ug/L	97.0
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	15.3	ug/L	92.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	74-132

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Bromodichloromethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	7.10	ug/L	106
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.83	ug/L	102

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	64-132

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Bromoform							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.47	ug/L	97.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.18	ug/L	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	41-135

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Bromomethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.84	ug/L	88.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	7.00	ug/L	105

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	46-152

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Carbon disulfide							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.99	ug/L	90.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	7.27	ug/L	109
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 29-223				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Carbon tetrachloride							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.07	ug/L	91.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.19	ug/L	93.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 53-167				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Chlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.48	ug/L	97.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.81	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 73-119				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Chlorobenzene							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	16.9	ug/L	101
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	18.1	ug/L	108
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 73-119				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Chloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.31	ug/L	80.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.59	ug/L	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-154				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Chloroform							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.70	ug/L	85.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.54	ug/L	98.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 64-130				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Chloromethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.43	ug/L	81.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.40	ug/L	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 88.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 39-135				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Dibromochloromethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.48	ug/L	97.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.57	ug/L	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-122				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Ethylbenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.82	ug/L	102
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	7.13	ug/L	107
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 72-130				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Methylene chloride							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	4.30	ug/L	64.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	5.03	ug/L	75.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 69.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 49-151				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Styrene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.67	ug/L	100
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.90	ug/L	103
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 73-131				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Tetrachloroethene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.06	ug/L	91.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.82	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 62-124				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.76	ug/L	101
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.71	ug/L	101
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	0.202	16.7	17.1	ug/L	101
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	0.202	16.7	16.3	ug/L	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Trichloroethene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.88	ug/L	88.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	5.98	ug/L	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 73-117				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Trichloroethene							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	14.5	ug/L	87.0
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	ND	16.7	15.2	ug/L	91.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 73-117				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Trichlorofluoromethane							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	4.74	ug/L	71.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	5.76	ug/L	86.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 78.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-142				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Vinyl acetate							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	4.97	ug/L	74.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	5.04	ug/L	76.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 75.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 35-199				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Vinyl chloride							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	5.35	ug/L	80.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.48	ug/L	97.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 88.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 27-161				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : cis-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.66	ug/L	100
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.15	ug/L	92.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-131				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : m&p-Xylenes							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	13.3	13.5	ug/L	102
08/16/95	LCSD955448	MSMSDB50815203401	NA	13.3	14.3	ug/L	107
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 74-128				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : o-Xylene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.92	ug/L	104
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	7.12	ug/L	107
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 79-125				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : trans-1,2-Dichloroethene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	6.17	ug/L	93.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	7.44	ug/L	112
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 58-144				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : trans-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	6.67	7.23	ug/L	108
08/16/95	LCSD955448	MSMSDB50815203401	NA	6.67	6.96	ug/L	104
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 64-132				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Ambient Blank							
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	NA	16.7	14.6	ug/L	88.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 88.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Field Duplicate							
08/16/95	G95-SE-MW-01-FD-01	MSMSDB50815203401	NA	50.1	48.5	ug/L	97.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 97.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	16.7	14.4	ug/L	86.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	16.7	15.6	ug/L	93.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Matrix Spike							

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Matrix Spike, cont.							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	15.1	ug/L	90.0
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	14.8	ug/L	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953528	MSMSDB50815203401	NA	16.7	14.1	ug/L	84.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 84.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	15.7	ug/L	94.0
08/16/95	G95-SE-MW-01-01	MSMSDB50815203401	NA	50.1	48.8	ug/L	97.0
08/16/95	G95-SE-MW-02-01	MSMSDB50815203401	NA	16.7	16.3	ug/L	98.0
08/16/95	G95-SE-MW-04-01	MSMSDB50815203401	NA	16.7	13.8	ug/L	83.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 93.0			Above acceptance : 0				
Standard Deviation : 6.88			Acceptance Criteria 83-121				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Trip Blank							
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	NA	16.7	15.0	ug/L	90.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 83-121				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Ambient Blank							
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	NA	16.7	16.9	ug/L	101
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 84-116				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Field Duplicate							
08/16/95	G95-SE-MW-01-FD-01	MSMSDB50815203401	NA	50.1	50.7	ug/L	101
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 84-116				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Laboratory Control							

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Laboratory Control, cont.							
08/15/95	LCS955447	MSMSDB50815203401	NA	16.7	16.8	ug/L	101
08/16/95	LCSD955448	MSMSDB50815203401	NA	16.7	16.2	ug/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	84-116

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.6	ug/L	100
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.5	ug/L	99.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	84-116

Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953528	MSMSDB50815203401	NA	16.7	16.7	ug/L	100

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	84-116

Method : SW8260 - Volatile Organic Compounds
Spiked Analyte : 1,4-Bromofluorobenzene
Type of Spike : Surrogate - Normal Sample

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Normal Sample, cont.							
08/15/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.4	ug/L	98.0
08/16/95	G95-SE-MW-01-01	MSMSDB50815203401	NA	50.1	49.6	ug/L	99.0
08/16/95	G95-SE-MW-02-01	MSMSDB50815203401	NA	16.7	15.8	ug/L	95.0
08/16/95	G95-SE-MW-04-01	MSMSDB50815203401	NA	16.7	16.7	ug/L	100
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : 2.16			Acceptance Criteria 84-116				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Trip Blank							
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	NA	16.7	16.7	ug/L	100
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 84-116				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Ambient Blank							
08/16/95	G95-SE-MW-AB-01	MSMSDB50815203401	NA	16.7	16.5	ug/L	98.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Field Duplicate							
08/16/95	G95-SE-MW-01-FD-01	MSMSDB50815203401	NA	50.1	48.9	ug/L	98.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS955447	MSMSDB50815203401	NA	16.7	16.5	ug/L	99.0
08/16/95	LCSD955448	MSMSDB50815203401	NA	16.7	16.3	ug/L	98.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Matrix Spike							
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.1	ug/L	97.0
08/16/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.3	ug/L	97.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Method Blank							

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Method Blank, cont.							
08/15/95	BLK953528	MSMSDB50815203401	NA	16.7	16.4	ug/L	98.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-03-01	MSMSDB50815203401	NA	16.7	16.3	ug/L	98.0
08/16/95	G95-SE-MW-01-01	MSMSDB50815203401	NA	50.1	48.1	ug/L	96.0
08/16/95	G95-SE-MW-02-01	MSMSDB50815203401	NA	16.7	16.1	ug/L	96.0
08/16/95	G95-SE-MW-04-01	MSMSDB50815203401	NA	16.7	16.1	ug/L	97.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 96.8			Above acceptance : 0				
Standard Deviation : 0.957			Acceptance Criteria 81-115				
Method : SW8260 - Volatile Organic Compounds							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Trip Blank							
08/16/95	G95-SE-MW-TB-01	MSMSDB50815203401	NA	16.7	16.1	ug/L	96.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-115				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2,4-Trichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: 3.06	Acceptance Criteria	44-142

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2,4-Trichlorobenzene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	107	ug/L	101
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	103	ug/L	101

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	44-142

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	96.1	ug/L	96.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	96.0	ug/L	96.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	101	ug/L	101

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 97.7	Above acceptance :	0
Standard Deviation	: 2.89	Acceptance Criteria	32-129

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,3-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	95.6	ug/L	96.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	95.1	ug/L	95.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	101	ug/L	101
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 97.3			Above acceptance : 0				
Standard Deviation : 3.21			Acceptance Criteria D-172				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,4-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	94.9	ug/L	95.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	95.3	ug/L	95.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	102	ug/L	102
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 97.3			Above acceptance : 0				
Standard Deviation : 4.04			Acceptance Criteria 20-124				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,4-Dichlorobenzene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	101	ug/L	95.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	96.5	ug/L	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 95.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-124				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,5-Trichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	96.2	ug/L	96.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCSD955577	MSMSD250815084902	NA	100	109	ug/L	109

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: 7.81	Acceptance Criteria	37-121

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Trichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	96.5	ug/L	96.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	108	ug/L	108
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 6.11	Acceptance Criteria	37-144

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	93.4	ug/L	93.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCSD955577	MSMSD250815084902	NA	100	106	ug/L	106

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 7.00	Acceptance Criteria	39-135

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dimethylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	65.0	ug/L	65.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	87.5	ug/L	88.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	85.7	ug/L	86.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 79.7	Above acceptance :	0
Standard Deviation	: 12.7	Acceptance Criteria	D-112

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCS955577	MSMSD250815084902	NA	100	119	ug/L	119
08/15/95	LCSD955577	MSMSD250815084902	NA	100	118	ug/L	118

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 115	Above acceptance :	0
Standard Deviation	: 6.66	Acceptance Criteria	D-191

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrotoluene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	115	ug/L	115
08/15/95	LCS955577	MSMSD250815084902	NA	100	114	ug/L	114
08/15/95	LCSD955577	MSMSD250815084902	NA	100	117	ug/L	117

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 115	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	39-139

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrotoluene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	110	ug/L	103
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	106	ug/L	105

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	39-139

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,6-Dinitrotoluene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	111	ug/L	111
08/15/95	LCS955577	MSMSD250815084902	NA	100	113	ug/L	113
08/15/95	LCSD955577	MSMSD250815084902	NA	100	112	ug/L	112

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 112	Above acceptance :	0
Standard Deviation	: 1.00	Acceptance Criteria	50-158

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chloronaphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	101	ug/L	101
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 102	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	60-118

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	88.3	ug/L	88.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	95.0	ug/L	95.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	98.7	ug/L	99.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: 5.57	Acceptance Criteria	23-134

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chlorophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	213	194	ug/L	91.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	203	192	ug/L	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	23-134

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylnaphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	109	ug/L	109

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	37-150

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	80.4	ug/L	80.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	87.1	ug/L	87.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	92.1	ug/L	92.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 86.3			Above acceptance : 0				
Standard Deviation : 6.03			Acceptance Criteria 29-133				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	107	ug/L	[illegible]
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 1.15			Acceptance Criteria 40-149				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	97.9	ug/L	98.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	108	ug/L	108
08/15/95	LCSD955577	MSMSD250815084902	NA	100	109	ug/L	109
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 6.08			Acceptance Criteria 29-182				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3,3'-Dichlorobenzidine							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	95.4	ug/L	95.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCSD955577	MSMSD250815084902	NA	100	100	ug/L	100

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 99.7	Above acceptance :	0
Standard Deviation	: 4.51	Acceptance Criteria	D-262

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCS955577	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	45-157

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4,6-Dinitro-2-methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	115	ug/L	115
08/15/95	LCS955577	MSMSD250815084902	NA	100	127	ug/L	127
08/15/95	LCSD955577	MSMSD250815084902	NA	100	125	ug/L	125

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 122	Above acceptance :	0
Standard Deviation	: 6.43	Acceptance Criteria	D-181

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Bromophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCS955577	MSMSD250815084902	NA	100	111	ug/L	111
08/15/95	LCSD955577	MSMSD250815084902	NA	100	110	ug/L	110

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: 0.577	Acceptance Criteria	53-127

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chloro-3-methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	92.5	ug/L	93.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: 6.08	Acceptance Criteria	22-147

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chloro-3-methylphenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	213	198	ug/L	93.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	203	200	ug/L	99.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	22-147

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chlorophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCS955577	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCSD955577	MSMSD250815084902	NA	100	112	ug/L	112
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 110			Above acceptance : 0				
Standard Deviation : 2.52			Acceptance Criteria 25-158				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Methylphenol/3-Methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	67.9	ug/L	68.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	75.2	ug/L	75.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	80.3	ug/L	80.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 74.3			Above acceptance : 0				
Standard Deviation : 6.03			Acceptance Criteria 20-135				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	100	ug/L	100
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	103	ug/L	103
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 2.52			Acceptance Criteria 25-162				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	37.8	ug/L	38.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	40.9	ug/L	41.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	41.3	ug/L	41.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 40.0	Above acceptance :	0
Standard Deviation	: 1.73	Acceptance Criteria	D-132

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitrophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	213	71.9	ug/L	34.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	203	73.2	ug/L	36.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 35.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-132

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 1.00	Acceptance Criteria	47-145

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	102	ug/L	100
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	107	ug/L	100
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 47-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthylene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	96.9	ug/L	97.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 3.79			Acceptance Criteria 33-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	101	ug/L	101
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	107	ug/L	107
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 3.21			Acceptance Criteria 27-133				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	108	ug/L	108
08/15/95	LCS955577	MSMSD250815084902	NA	100	109	ug/L	109
08/15/95	LCSD955577	MSMSD250815084902	NA	100	107	ug/L	107

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 108	Above acceptance :	0
Standard Deviation	: 1.00	Acceptance Criteria	33-143

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	114	ug/L	114
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	106	ug/L	[illegible]

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: 4.62	Acceptance Criteria	17-163

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(b)fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	123	ug/L	123
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	99.6	ug/L	100

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 108	Above acceptance :	0
Standard Deviation	: 12.7	Acceptance Criteria	24-159

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(g,h,i)perylene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	116	ug/L	116
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 110			Above acceptance : 0				
Standard Deviation : 5.69			Acceptance Criteria D-219				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(k)fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	101	ug/L	101
08/15/95	LCS955577	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCSD955577	MSMSD250815084902	NA	100	97.4	ug/L	97.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 3.51			Acceptance Criteria 11-162				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzoic acid							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	35.5	ug/L	35.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	30.1	ug/L	30.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	43.9	ug/L	44.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 36.3			Above acceptance : 0				
Standard Deviation : 7.09			Acceptance Criteria 0-294				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzyl alcohol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	93.0	ug/L	93.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	83.6	ug/L	84.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	91.8	ug/L	92.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 89.7	Above acceptance :	0
Standard Deviation	: 4.93	Acceptance Criteria	NS

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Butylbenzylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	103	ug/L	1[illegible]

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 1.15	Acceptance Criteria	D-152

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Chrysene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCS955577	MSMSD250815084902	NA	100	109	ug/L	109
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 108	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	17-168

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-butylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples : 3		Below acceptance :	0
Mean % Recovery : 103		Above acceptance :	0
Standard Deviation : 1.15		Acceptance Criteria	1-118

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-octylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	116	ug/L	116
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples : 3		Below acceptance :	0
Mean % Recovery : 108		Above acceptance :	0
Standard Deviation : 7.00		Acceptance Criteria	4-146

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenz(a,h)anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	112	ug/L	112
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples : 3		Below acceptance :	0
Mean % Recovery : 109		Above acceptance :	0
Standard Deviation : 3.06		Acceptance Criteria	D-227

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenzofuran							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	107	ug/L	107

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	67-122

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diethylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	99.4	ug/L	99.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	103	ug/L	1[illegible]

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 102	Above acceptance :	0
Standard Deviation	: 2.31	Acceptance Criteria	20-162

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dimethylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	109	ug/L	109
08/15/95	LCS955577	MSMSD250815084902	NA	100	112	ug/L	112
08/15/95	LCSD955577	MSMSD250815084902	NA	100	112	ug/L	112

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: 1.73	Acceptance Criteria	D-179

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diphenylamine (N-Nitrosodiphenylamine)							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	87.4	ug/L	87.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	91.9	ug/L	92.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	91.3	ug/L	91.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 90.0	Above acceptance :	0
Standard Deviation	: 2.65	Acceptance Criteria	NS

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	109	ug/L	109
08/15/95	LCS955577	MSMSD250815084902	NA	100	109	ug/L	109
08/15/95	LCSD955577	MSMSD250815084902	NA	100	110	ug/L	110

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: 0.577	Acceptance Criteria	26-137

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluorene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	99.3	ug/L	99.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	106	ug/L	106

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 3.79	Acceptance Criteria	59-121

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCS955577	MSMSD250815084902	NA	100	112	ug/L	112
08/15/95	LCSD955577	MSMSD250815084902	NA	100	113	ug/L	113

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 112	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	D-152

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobutadiene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	1

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 3.21	Acceptance Criteria	23-140

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorocyclopentadiene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	38.0	ug/L	38.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	74.5	ug/L	75.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	68.3	ug/L	68.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 60.3	Above acceptance :	0
Standard Deviation	: 19.7	Acceptance Criteria	0-308

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	90.6	ug/L	91.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	93.1	ug/L	93.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	101	ug/L	101

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: 5.29	Acceptance Criteria	42-165

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Indeno(1,2,3-cd)pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	117	ug/L	117
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	109	ug/L	109

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: 5.69	Acceptance Criteria	D-171

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Isophorone							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCS955577	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	21-196

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : N-Nitroso-di-n-propylamine							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCS955577	MSMSD250815084902	NA	100	100	ug/L	100
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 2.89	Acceptance Criteria	D-230

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : N-Nitroso-di-n-propylamine							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	111	ug/L	109
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	115	ug/L	108

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-230

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Naphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCS955577	MSMSD250815084902	NA	100	100	ug/L	100
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 2.52	Acceptance Criteria	21-133

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	102	ug/L	102
08/15/95	LCS955577	MSMSD250815084902	NA	100	99.7	ug/L	100
08/15/95	LCSD955577	MSMSD250815084902	NA	100	105	ug/L	105

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 102	Above acceptance :	0
Standard Deviation	: 2.52	Acceptance Criteria	35-180

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	95.0	ug/L	95.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 5.51	Acceptance Criteria	14-176

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	203	224	ug/L	110
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	213	221	ug/L	104

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	14-176

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenanthrene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCS955577	MSMSD250815084902	NA	100	106	ug/L	106
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 1.00	Acceptance Criteria	54-120

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	43.7	ug/L	44.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	46.8	ug/L	47.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	50.6	ug/L	51.[illegible]

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 47.3	Above acceptance :	0
Standard Deviation	: 3.51	Acceptance Criteria	5-112

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	213	81.8	ug/L	38.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	203	81.5	ug/L	40.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 39.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	5-112

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCS955577	MSMSD250815084902	NA	100	110	ug/L	110
08/15/95	LCSD955577	MSMSD250815084902	NA	100	110	ug/L	110

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: 0.00	Acceptance Criteria	52-115

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pyrene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	102	107	ug/L	106
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	ND	106	109	ug/L	103

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	52-115

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethoxy)methane							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	107	ug/L	107
08/15/95	LCS955577	MSMSD250815084902	NA	100	105	ug/L	105
08/15/95	LCSD955577	MSMSD250815084902	NA	100	108	ug/L	108

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 1.53	Acceptance Criteria	33-184

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethyl)ether							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCS955577	MSMSD250815084902	NA	100	97.3	ug/L	97.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	104	ug/L	104

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 3.79	Acceptance Criteria	12-158

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroisopropyl)ether							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	96.8	ug/L	97.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	84.8	ug/L	85.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	91.7	ug/L	92

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 91.3	Above acceptance :	0
Standard Deviation	: 6.03	Acceptance Criteria	36-166

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Ethylhexyl)phthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	104	ug/L	104
08/15/95	LCS955577	MSMSD250815084902	NA	100	103	ug/L	103
08/15/95	LCSD955577	MSMSD250815084902	NA	100	102	ug/L	102

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 1.00	Acceptance Criteria	8-158

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : p-Chloroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	85.2	ug/L	85.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	95.2	ug/L	95.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	99.3	ug/L	99.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 93.0			Above acceptance : 0				
Standard Deviation : 7.21			Acceptance Criteria 55-153				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	200	232	ug/L	116
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 116			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 26-123				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	200	201	ug/L	101
08/15/95	LCS955577	MSMSD250815084902	NA	200	219	ug/L	110
08/15/95	LCSD955577	MSMSD250815084902	NA	200	218	ug/L	109
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : 4.93			Acceptance Criteria 26-123				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	213	235	ug/L	110
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	203	237	ug/L	117

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 114	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	26-123

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	200	219	ug/L	110

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	26-123

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	200	214	ug/L	107
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	208	239	ug/L	115
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	211	228	ug/L	108
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	203	215	ug/L	106

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: 4.08	Acceptance Criteria	26-123

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	100	98.0	ug/L	98.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 43-116				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	75.2	ug/L	75.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	92.9	ug/L	93.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	92.7	ug/L	93.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 87.0			Above acceptance : 0				
Standard Deviation : 10.4			Acceptance Criteria 43-116				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	102	105	ug/L	104
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	106	106	ug/L	100
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 43-116				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	100	94.1	ug/L	94.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 43-116				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	100	90.3	ug/L	90.0
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	104	103	ug/L	99.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	105	102	ug/L	97.0
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	102	91.1	ug/L	90.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : 4.69			Acceptance Criteria 43-116				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	200	135	ug/L	68.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 68.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 31-100				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	200	126	ug/L	63.0
08/15/95	LCS955577	MSMSD250815084902	NA	200	124	ug/L	62.0
08/15/95	LCSD955577	MSMSD250815084902	NA	200	133	ug/L	66.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 63.7	Above acceptance :	0
Standard Deviation	: 2.08	Acceptance Criteria	31-100

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	213	137	ug/L	65.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	203	136	ug/L	67.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 66.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	31-100

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	200	130	ug/L	65.0

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 65.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	31-100

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	200	115	ug/L	58.0
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	208	142	ug/L	68.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	211	136	ug/L	64.0
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	203	120	ug/L	59.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 62.3	Above acceptance :	0
Standard Deviation	: 4.65	Acceptance Criteria	31-100

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	100	100	ug/L	100

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	45-114

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	90.9	ug/L	91.0
08/15/95	LCS955577	MSMSD250815084902	NA	100	93.2	ug/L	93.0
08/15/95	LCSD955577	MSMSD250815084902	NA	100	96.7	ug/L	97.0

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 93.7	Above acceptance :	0
Standard Deviation	: 3.06	Acceptance Criteria	45-114

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	106	101	ug/L	95.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	102	101	ug/L	100
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 45-114				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	100	97.2	ug/L	97.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 97.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 45-114				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	100	91.9	ug/L	92.0
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	104	101	ug/L	97.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	105	101	ug/L	96.0
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	102	89.1	ug/L	88.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 93.3			Above acceptance : 0				
Standard Deviation : 4.11			Acceptance Criteria 45-114				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	200	101	ug/L	50.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 50.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 28-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	200	98.9	ug/L	50.0
08/15/95	LCS955577	MSMSD250815084902	NA	200	96.7	ug/L	48.0
08/15/95	LCSD955577	MSMSD250815084902	NA	200	106	ug/L	53.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 50.3			Above acceptance : 0				
Standard Deviation : 2.52			Acceptance Criteria 28-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	213	104	ug/L	49.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	203	104	ug/L	51.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 50.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 28-122				

TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	200	93.9	ug/L	47.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 47.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 28-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	200	88.3	ug/L	44.0
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	208	106	ug/L	51.0
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	211	101	ug/L	48.0
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	203	90.5	ug/L	45.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 47.0			Above acceptance : 0				
Standard Deviation : 3.16			Acceptance Criteria 28-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Field Duplicate							
08/15/95	G95-SE-MW-01-FD-01	MSMSD250815084902	NA	100	120	ug/L	120
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 120			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 66-122				

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS954026	MSMSD250815084902	NA	100	108	ug/L	108
08/15/95	LCS955577	MSMSD250815084902	NA	100	116	ug/L	116
08/15/95	LCSD955577	MSMSD250815084902	NA	100	114	ug/L	114

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 113	Above acceptance :	0
Standard Deviation	: 4.16	Acceptance Criteria	66-122

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	106	121	ug/L	114
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	102	122	ug/L	120

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 117	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	66-122

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953609	MSMSD250815084902	NA	100	118	ug/L	118

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 118	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	66-122

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TABLE D-4 DETAILED LISTING OF LIQUID SPIKE RESULTS - WATER SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-01-01	MSMSD250815084902	NA	100	108	ug/L	108
08/15/95	G95-SE-MW-02-01	MSMSD250815084902	NA	104	115	ug/L	111
08/15/95	G95-SE-MW-03-01	MSMSD250815084902	NA	105	118	ug/L	112
08/15/95	G95-SE-MW-04-01	MSMSD250815084902	NA	102	106	ug/L	105

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: 3.16	Acceptance Criteria	66-122

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TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = AK101 - Gasoline Range Organics Type of Duplicate : Field Duplicate							
Gasoline	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	790	1000	895	148	23.5
Method = AK101 - Gasoline Range Organics Type of Duplicate : Matrix Spike Duplicate							
Gasoline	G95-SE-MW-03-01	G95-SE-MW-03-01	100	90.0	95.0	7.07	10.5
Method = AK102 - Diesel Range Organics Type of Duplicate : Field Duplicate							
Diesel	G95-SE-GP-01	G95-SE-GP-01-FD	9200	10000	9600	566	8.33
Diesel	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	9300	5500	7400	2687	51.4
Method = AK102 - Diesel Range Organics Type of Duplicate : Laboratory Control Duplicate							
Diesel	LCS	LCSD	96.0	108	102	8.49	11.8
Diesel	LCS	LCSD	70.0	82.0	76.0	8.49	15.8
Method = AK102 - Diesel Range Organics Type of Duplicate : Matrix Spike Duplicate							
Diesel	G95-SE-MW-03-01	G95-SE-MW-03-01	< 100 (J)	< 100 (J)	NC	NC	NC

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NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Field Duplicate							
Aluminum	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.0904	0.318	0.204	0.161	111
Antimony	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.0760 (J)	0.0812	NC	NC	NC
Arsenic	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.0468 (J)	< 0.0468 (J)	NC	NC	NC
Barium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.632	0.648	0.640	0.0113	2.50
Beryllium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.00394	0.00197	0.00296	0.00139	66.7
Cadmium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.00851 (B)	0.00523 (B)	0.00687	0.00232	47.7
Calcium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	217	223	220	4.24	2.73
Chromium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00524 (J)	< 0.00524 (J)	NC	NC	NC
Cobalt	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.0228	0.0279	0.0254	0.00361	20.1
Copper	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00916 (J)	< 0.00916 (J)	NC	NC	NC
Iron	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	22.0	24.4	23.2	1.70	10.3
Lead	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.0216 (J)	< 0.0216 (J)	NC	NC	NC
Magnesium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	63.7	65.7	64.7	1.41	3.09
Manganese	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	31.2	31.5	31.4	0.212	0.957
Molybdenum	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00739 (J)	< 0.00739 (J)	NC	NC	NC
Nickel	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.0418	0.0309	0.0364	0.00771	30.0
Potassium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	5.75	6.77	6.26	0.721	16.3
Selenium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.142	< 0.0891 (J)	NC	NC	NC
Silver	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00519 (J)	< 0.00519 (J)	NC	NC	NC
Sodium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	11.4	11.4	11.4	0.00	0.00
Thallium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.0833 (J)	< 0.0833 (J)	NC	NC	NC
Vanadium	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00454 (J)	< 0.00454 (J)	NC	NC	NC
Zinc	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.00402 (J)	< 0.00402 (J)	NC	NC	NC

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TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate							
Aluminum	LCS955596	LCSD955596	93.0	95.0	94.0	1.41	2.13
Antimony	LCS955596	LCSD955596	100	114	107	9.90	13.1
Arsenic	LCS955596	LCSD955596	96.0	92.0	94.0	2.83	4.26
Barium	LCS955596	LCSD955596	95.0	96.0	95.5	0.707	1.05
Beryllium	LCS955596	LCSD955596	99.0	100	99.5	0.707	1.01
Cadmium	LCS955596	LCSD955596	95.0	96.0	95.5	0.707	1.05
Calcium	LCS955596	LCSD955596	95.0	95.0	95.0	0.00	0.00
Chromium	LCS955596	LCSD955596	94.0	96.0	95.0	1.41	2.11
Cobalt	LCS955596	LCSD955596	93.0	95.0	94.0	1.41	2.13
Copper	LCS955596	LCSD955596	96.0	97.0	96.5	0.707	1.04
Iron	LCS955596	LCSD955596	98.0	99.0	98.5	0.707	1.02
Lead	LCS955596	LCSD955596	91.0	89.0	90.0	1.41	2.22
Magnesium	LCS955596	LCSD955596	95.0	96.0	95.5	0.707	1.05
Manganese	LCS955596	LCSD955596	96.0	97.0	96.5	0.707	1.04
Molybdenum	LCS955596	LCSD955596	91.0	90.0	90.5	0.707	1.10
Nickel	LCS955596	LCSD955596	95.0	94.0	94.5	0.707	1.06
Potassium	LCS955596	LCSD955596	96.0	98.0	97.0	1.41	2.06
Selenium	LCS955596	LCSD955596	91.0	88.0	89.5	2.12	3.35
Silver	LCS955596	LCSD955596	94.0	94.0	94.0	0.00	0.00
Sodium	LCS955596	LCSD955596	97.0	100	98.5	2.12	3.05
Thallium	LCS955596	LCSD955596	101	99.0	100	1.41	2.00
Vanadium	LCS955596	LCSD955596	94.0	95.0	94.5	0.707	1.06
Zinc	LCS955596	LCSD955596	96.0	96.0	96.0	0.00	0.00

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NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Matrix Spike Duplicate							
Aluminum	G95-SE-MW-03-01	G95-SE-MW-03-01	93.0	95.0	94.0	1.41	2.13
Antimony	G95-SE-MW-03-01	G95-SE-MW-03-01	100	113	107	9.19	12.2
Arsenic	G95-SE-MW-03-01	G95-SE-MW-03-01	84.0	94.0	89.0	7.07	11.2
Barium	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	94.0	92.5	2.12	3.24
Beryllium	G95-SE-MW-03-01	G95-SE-MW-03-01	96.0	99.0	97.5	2.12	3.08
Cadmium	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	93.0	92.0	1.41	2.17
Calcium	G95-SE-MW-03-01	G95-SE-MW-03-01	52.0	103	77.5	36.1	65.8
Chromium	G95-SE-MW-03-01	G95-SE-MW-03-01	89.0	92.0	90.5	2.12	3.31
Cobalt	G95-SE-MW-03-01	G95-SE-MW-03-01	89.0	90.0	89.5	0.707	1.12
Copper	G95-SE-MW-03-01	G95-SE-MW-03-01	93.0	94.0	93.5	0.707	1.07
Iron	G95-SE-MW-03-01	G95-SE-MW-03-01	94.0	96.0	95.0	1.41	2.11
Lead	G95-SE-MW-03-01	G95-SE-MW-03-01	90.0	96.0	93.0	4.24	6.45
Magnesium	G95-SE-MW-03-01	G95-SE-MW-03-01	89.0	95.0	92.0	4.24	6.52
Manganese	G95-SE-MW-03-01	G95-SE-MW-03-01	90.0	92.0	91.0	1.41	2.20
Molybdenum	G95-SE-MW-03-01	G95-SE-MW-03-01	85.0	88.0	86.5	2.12	3.47
Nickel	G95-SE-MW-03-01	G95-SE-MW-03-01	92.0	90.0	91.0	1.41	2.20
Potassium	G95-SE-MW-03-01	G95-SE-MW-03-01	94.0	93.0	93.5	0.707	1.07
Selenium	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	75.0	83.0	11.3	19.3
Silver	G95-SE-MW-03-01	G95-SE-MW-03-01	90.0	93.0	91.5	2.12	3.28
Sodium	G95-SE-MW-03-01	G95-SE-MW-03-01	98.0	95.0	96.5	2.12	3.11
Thallium	G95-SE-MW-03-01	G95-SE-MW-03-01	79.0	89.0	84.0	7.07	11.9
Vanadium	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	93.0	92.0	1.41	2.17
Zinc	G95-SE-MW-03-01	G95-SE-MW-03-01	95.0	93.0	94.0	1.41	2.13

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NC = Not C[illegible]lable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW7421 - Lead							
Type of Duplicate : Field Duplicate							
Lead	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.000957 (J)	< 0.000957 (J)	NC	NC	NC
Method = SW7421 - Lead							
Type of Duplicate : Laboratory Control Duplicate							
Lead	LCS955595	LCSD955595	93.0	91.0	92.0	1.41	2.17
Method = SW7421 - Lead							
Type of Duplicate : Matrix Spike Duplicate							
Lead	G95-SE-MW-03-01	G95-SE-MW-03-01	94.0	94.0	94.0	0.00	0.00
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Field Duplicate							
1,1,1,2-Tetrachloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.399	< 0.399	NC	NC	NC
1,1,1-Trichloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.360	< 0.360	NC	NC	NC
1,1,2,2-Tetrachloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.212	< 0.212	NC	NC	NC
1,1,2-Trichloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.203	< 0.203	NC	NC	NC
1,1-Dichloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.194	< 0.194	NC	NC	NC
1,1-Dichloroethene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.636	< 0.636	NC	NC	NC
1,2,3-Trichloropropane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.271	< 0.271	NC	NC	NC
1,2-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.546	< 0.546	NC	NC	NC
1,2-Dichloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	1.07	1.04	1.06	0.0212	2.84

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Field Duplicate, cont.							
1,2-Dichloropropane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.132	< 0.132	NC	NC	NC
1,3-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.684	< 0.684	NC	NC	NC
1,4-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.648	< 0.648	NC	NC	NC
1-Chlorohexane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.07	< 1.07	NC	NC	NC
2-Butanone(MEK)	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 3.87	< 3.87	NC	NC	NC
2-Chloroethyl vinyl ether	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.393	< 0.393	NC	NC	NC
2-Hexanone	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.04	< 1.04	NC	NC	NC
4-Methyl-2-Pentanone(MIBK)	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.948	< 0.948	NC	NC	NC
Acetone	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	7.86 (B)	7.98 (B)	7.92	0.0849	1.52
Benzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	58.1	58.5	58.3	0.283	0.686
Bromobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.501	< 0.501	NC	NC	NC
Bromodichloromethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.139	< 0.139	NC	NC	NC
Bromoform	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.408	< 0.408	NC	NC	NC
Bromomethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.150	< 0.150	NC	NC	NC
Carbon disulfide	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.570	< 0.570	NC	NC	NC
Carbon tetrachloride	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.393	< 0.393	NC	NC	NC
Chlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.615	< 0.615	NC	NC	NC
Chloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.269	< 0.269	NC	NC	NC
Chloroform	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.296	< 0.296	NC	NC	NC
Chloromethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.268	< 0.268	NC	NC	NC
Dibromochloromethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.261	< 0.261	NC	NC	NC
Dibromomethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	0.559 (B)	0.779 (B)	0.669	0.156	32.9
Ethylbenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	21.6	21.1	21.4	0.354	2.34
Methylene chloride	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.27 (BJ)	< 1.27 (BJ)	NC	NC	NC
Styrene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.552	< 0.552	NC	NC	NC
Tetrachloroethene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	1.74 (B)	3.43	2.59	1.20	65.4
Toluene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	6.00	6.01	6.01	0.00707	0.167

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Field Duplicate, cont.							
Trichloroethene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.591 (J)	< 0.591	NC	NC	NC
Trichlorofluoromethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.300	< 0.300	NC	NC	NC
Vinyl acetate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.14	< 1.14	NC	NC	NC
Vinyl chloride	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.209	< 0.209	NC	NC	NC
cis-1,2-Dichloroethene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.312	< 0.312	NC	NC	NC
cis-1,3-Dichloropropene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.348	< 0.348	NC	NC	NC
m&p-Xylenes	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	28.4	28.1	28.3	0.212	1.06
o-Xylene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	10.8	10.9	10.9	0.0707	0.922
trans-1,2-Dichloroethene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.636	< 0.636	NC	NC	NC
trans-1,3-Dichloropropene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.217	< 0.217	NC	NC	NC
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Laboratory Control Duplicate							
1,1,1-Trichloroethane	LCS955447	LCSD955448	85.0	101	93.0	11.3	17.2
1,1,2,2-Tetrachloroethane	LCS955447	LCSD955448	104	95.0	99.5	6.36	9.05
1,1,2-Trichloroethane	LCS955447	LCSD955448	100	95.0	97.5	3.54	5.13
1,1-Dichloroethane	LCS955447	LCSD955448	87.0	101	94.0	9.90	14.9
1,1-Dichloroethene	LCS955447	LCSD955448	79.0	95.0	87.0	11.3	18.4
1,2-Dichloroethane	LCS955447	LCSD955448	89.0	97.0	93.0	5.66	8.60
1,2-Dichloropropane	LCS955447	LCSD955448	96.0	92.0	94.0	2.83	4.26
2-Butanone(MEK)	LCS955447	LCSD955448	52.0	55.0	53.5	2.12	5.61
2-Chloroethyl vinyl ether	LCS955447	LCSD955448	100	89.0	94.5	7.78	11.6
2-Hexanone	LCS955447	LCSD955448	91.0	82.0	86.5	6.36	10.4
4-Methyl-2-Pentanone(MIBK)	LCS955447	LCSD955448	100	86.0	93.0	9.90	15.1
Acetone	LCS955447	LCSD955448	42.0	47.0	44.5	3.54	11.2

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Benzene	LCS955447	LCSD955448	101	101	101	0.00	0.00
Bromodichloromethane	LCS955447	LCSD955448	106	102	104	2.83	3.85
Bromoform	LCS955447	LCSD955448	97.0	93.0	95.0	2.83	4.21
Bromomethane	LCS955447	LCSD955448	88.0	105	96.5	12.0	17.6
Carbon disulfide	LCS955447	LCSD955448	90.0	109	99.5	13.4	19.1
Carbon tetrachloride	LCS955447	LCSD955448	91.0	93.0	92.0	1.41	2.17
Chlorobenzene	LCS955447	LCSD955448	97.0	102	99.5	3.54	5.03
Chloroethane	LCS955447	LCSD955448	80.0	99.0	89.5	13.4	21.2
Chloroform	LCS955447	LCSD955448	85.0	98.0	91.5	9.19	14.2
Chloromethane	LCS955447	LCSD955448	81.0	96.0	88.5	10.6	16.9
Dibromochloromethane	LCS955447	LCSD955448	97.0	99.0	98.0	1.41	2.04
Ethylbenzene	LCS955447	LCSD955448	102	107	105	3.54	4.78
Methylene chloride	LCS955447	LCSD955448	64.0	75.0	69.5	7.78	15.8
Styrene	LCS955447	LCSD955448	100	103	102	2.12	2.96
Tetrachloroethene	LCS955447	LCSD955448	91.0	102	96.5	7.78	11.4
Toluene	LCS955447	LCSD955448	101	101	101	0.00	0.00
Trichloroethene	LCS955447	LCSD955448	88.0	90.0	89.0	1.41	2.25
Trichlorofluoromethane	LCS955447	LCSD955448	71.0	86.0	78.5	10.6	19.1
Vinyl acetate	LCS955447	LCSD955448	74.0	76.0	75.0	1.41	2.67
Vinyl chloride	LCS955447	LCSD955448	80.0	97.0	88.5	12.0	19.2
cis-1,3-Dichloropropene	LCS955447	LCSD955448	100	92.0	96.0	5.66	8.33
m&p-Xylenes	LCS955447	LCSD955448	102	107	105	3.54	4.78
o-Xylene	LCS955447	LCSD955448	104	107	106	2.12	2.84
trans-1,2-Dichloroethene	LCS955447	LCSD955448	93.0	112	103	13.4	18.5
trans-1,3-Dichloropropene	LCS955447	LCSD955448	108	104	106	2.83	3.77

Compiled: 6 October 1995

NC = Not C[illegible]lable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8260 - Volatile Organic Compounds							
Type of Duplicate : Matrix Spike Duplicate							
1,1-Dichloroethene	G95-SE-MW-03-01	G95-SE-MW-03-01	72.0	69.0	70.5	2.12	4.26
Benzene	G95-SE-MW-03-01	G95-SE-MW-03-01	97.0	92.0	94.5	3.54	5.29
Chlorobenzene	G95-SE-MW-03-01	G95-SE-MW-03-01	108	101	105	4.95	6.70
Toluene	G95-SE-MW-03-01	G95-SE-MW-03-01	101	96.0	98.5	3.54	5.08
Trichloroethene	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	87.0	89.0	2.83	4.49
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Field Duplicate							
1,2,4-Trichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.996	< 0.996	NC	NC	NC
1,2-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.977	< 0.977	NC	NC	NC
1,3-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.04	< 1.04	NC	NC	NC
1,4-Dichlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.01	< 1.01	NC	NC	NC
2,4,5-Trichlorophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.812	< 0.812	NC	NC	NC
2,4,6-Trichlorophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.976	< 0.976	NC	NC	NC
2,4-Dichlorophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.09	< 1.09	NC	NC	NC
2,4-Dimethylphenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.03	< 1.03	NC	NC	NC
2,4-Dinitrophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 2.59	< 2.59	NC	NC	NC
2,4-Dinitrotoluene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.991	< 0.991	NC	NC	NC
2,6-Dinitrotoluene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.805	< 0.805	NC	NC	NC
2-Chloronaphthalene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.796	< 0.796	NC	NC	NC
2-Chlorophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.799	< 0.799	NC	NC	NC
2-Methylnaphthalene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	98.9	107	103	5.73	7.87
2-Methylphenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.700	< 0.700	NC	NC	NC
2-Nitroaniline	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.951	< 0.951	NC	NC	NC
2-Nitrophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.884	< 0.884	NC	NC	NC

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TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Field Duplicate, cont.							
3,3'-Dichlorobenzidine	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.647	< 0.647	NC	NC	NC
3-Nitroaniline	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.08	< 1.08	NC	NC	NC
4,6-Dinitro-2-methylphenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.06	< 1.06	NC	NC	NC
4-Bromophenyl phenyl ether	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 6.08	< 6.08	NC	NC	NC
4-Chloro-3-methylphenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.866	< 0.866	NC	NC	NC
4-Chlorophenyl phenyl ether	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.985	< 0.985	NC	NC	NC
4-Methylphenol/3-Methylphenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.753	< 0.753	NC	NC	NC
4-Nitroaniline	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.20	< 1.20	NC	NC	NC
4-Nitrophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.36	< 1.36	NC	NC	NC
Acenaphthene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.01 (J)	< 1.01 (J)	NC	NC	NC
Acenaphthylene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.880	< 0.880	NC	NC	NC
Anthracene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.751	< 0.751	NC	NC	NC
Benzo(a)anthracene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.762	< 0.762	NC	NC	NC
Benzo(a)pyrene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.585	< 0.585	NC	NC	NC
Benzo(b)fluoranthene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.698	< 0.698	NC	NC	NC
Benzo(g,h,i)perylene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.676	< 0.676	NC	NC	NC
Benzo(k)fluoranthene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.16	< 1.16	NC	NC	NC
Benzoic acid	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 6.03	< 6.03	NC	NC	NC
Benzyl alcohol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.642	< 0.642	NC	NC	NC
Butylbenzylphthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.962	< 0.962	NC	NC	NC
Chrysene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.858	< 0.858	NC	NC	NC
Di-n-butylphthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.873 (J)	< 0.873 (J)	NC	NC	NC
Di-n-octylphthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.397	< 0.397	NC	NC	NC
Dibenz(a,h)anthracene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.648	< 0.648	NC	NC	NC
Dibenzofuran	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.865	< 0.865	NC	NC	NC
Diethylphthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.962	< 0.962	NC	NC	NC
Dimethylphthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.808	< 0.808	NC	NC	NC

Compiled: 6 October 1995

NC = Not C[illegible]lable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Field Duplicate, cont.							
Diphenylamine (N-Nitrosodiphenylamine)	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.960	< 0.960	NC	NC	NC
Fluoranthene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.751	< 0.751	NC	NC	NC
Fluorene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	1.29	1.52	1.41	0.163	16.4
Hexachlorobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.656	< 0.656	NC	NC	NC
Hexachlorobutadiene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.45	< 1.45	NC	NC	NC
Hexachlorocyclopentadiene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 2.26	< 2.26	NC	NC	NC
Hexachloroethane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 1.02	< 1.02	NC	NC	NC
Indeno(1,2,3-cd)pyrene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.551	< 0.551	NC	NC	NC
Isophorone	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.770	< 0.770	NC	NC	NC
N-Nitroso-di-n-propylamine	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.896	< 0.896	NC	NC	NC
Naphthalene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	80.7	89.2	85.0	6.01	10.0
Nitrobenzene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.756	< 0.756	NC	NC	NC
Pentachlorophenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.834	< 0.834	NC	NC	NC
Phenanthrene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.932 (J)	< 0.932 (J)	NC	NC	NC
Phenol	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.416	< 0.416	NC	NC	NC
Pyrene	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.858	< 0.858	NC	NC	NC
bis(2-Chloroethoxy)methane	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.967	< 0.967	NC	NC	NC
bis(2-Chloroethyl)ether	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.857	< 0.857	NC	NC	NC
bis(2-Chloroisopropyl)ether	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.891	< 0.891	NC	NC	NC
bis(2-Ethylhexyl)phthalate	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.731	< 0.731	NC	NC	NC
p-Chloroaniline	G95-SE-MW-01-01	G95-SE-MW-01-FD-01	< 0.963	< 0.963	NC	NC	NC
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate							
1,2,4-Trichlorobenzene	LCS955577	LCSD955577	102	108	105	4.24	5.71

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
1,2-Dichlorobenzene	LCS955577	LCSD955577	96.0	101	98.5	3.54	5.08
1,3-Dichlorobenzene	LCS955577	LCSD955577	95.0	101	98.0	4.24	6.12
1,4-Dichlorobenzene	LCS955577	LCSD955577	95.0	102	98.5	4.95	7.11
2,4,5-Trichlorophenol	LCS955577	LCSD955577	110	109	110	0.707	0.913
2,4,6-Trichlorophenol	LCS955577	LCSD955577	108	104	106	2.83	3.77
2,4-Dichlorophenol	LCS955577	LCSD955577	104	106	105	1.41	1.90
2,4-Dimethylphenol	LCS955577	LCSD955577	88.0	86.0	87.0	1.41	2.30
2,4-Dinitrophenol	LCS955577	LCSD955577	119	118	119	0.707	0.844
2,4-Dinitrotoluene	LCS955577	LCSD955577	114	117	116	2.12	2.60
2,6-Dinitrotoluene	LCS955577	LCSD955577	113	112	113	0.707	0.889
2-Chloronaphthalene	LCS955577	LCSD955577	102	104	103	1.41	1.94
2-Chlorophenol	LCS955577	LCSD955577	95.0	99.0	97.0	2.83	4.12
2-Methylnaphthalene	LCS955577	LCSD955577	106	109	108	2.12	2.79
2-Methylphenol	LCS955577	LCSD955577	87.0	92.0	89.5	3.54	5.59
2-Nitroaniline	LCS955577	LCSD955577	105	107	106	1.41	1.89
2-Nitrophenol	LCS955577	LCSD955577	108	109	109	0.707	0.922
3,3'-Dichlorobenzidine	LCS955577	LCSD955577	104	100	102	2.83	3.92
3-Nitroaniline	LCS955577	LCSD955577	107	108	108	0.707	0.930
4,6-Dinitro-2-methylphenol	LCS955577	LCSD955577	127	125	126	1.41	1.59
4-Bromophenyl phenyl ether	LCS955577	LCSD955577	111	110	111	0.707	0.905
4-Chloro-3-methylphenol	LCS955577	LCSD955577	103	104	104	0.707	0.966
4-Chlorophenyl phenyl ether	LCS955577	LCSD955577	110	112	111	1.41	1.80
4-Methylphenol/3-Methylphenol	LCS955577	LCSD955577	75.0	80.0	77.5	3.54	6.45
4-Nitroaniline	LCS955577	LCSD955577	105	103	104	1.41	1.92
4-Nitrophenol	LCS955577	LCSD955577	41.0	41.0	41.0	0.00	0.00
Acenaphthene	LCS955577	LCSD955577	103	105	104	1.41	1.92
Acenaphthylene	LCS955577	LCSD955577	103	104	104	0.707	0.966

Compiled: 6 October 1995

NC = Not [illegible]lable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Anthracene	LCS955577	LCSD955577	106	107	107	0.707	0.939
Benzo(a)anthracene	LCS955577	LCSD955577	109	107	108	1.41	1.85
Benzo(a)pyrene	LCS955577	LCSD955577	106	106	106	0.00	0.00
Benzo(b)fluoranthene	LCS955577	LCSD955577	102	100	101	1.41	1.98
Benzo(g,h,i)perylene	LCS955577	LCSD955577	105	108	107	2.12	2.82
Benzo(k)fluoranthene	LCS955577	LCSD955577	104	97.0	101	4.95	6.97
Benzoic acid	LCS955577	LCSD955577	30.0	44.0	37.0	9.90	37.8
Benzyl alcohol	LCS955577	LCSD955577	84.0	92.0	88.0	5.66	9.09
Butylbenzylphthalate	LCS955577	LCSD955577	103	103	103	0.00	0.00
Chrysene	LCS955577	LCSD955577	109	108	109	0.707	0.922
Di-n-butylphthalate	LCS955577	LCSD955577	102	104	103	1.41	1.94
Di-n-octylphthalate	LCS955577	LCSD955577	103	105	104	1.41	1.92
Dibenz(a,h)anthracene	LCS955577	LCSD955577	106	108	107	1.41	1.87
Dibenzofuran	LCS955577	LCSD955577	105	107	106	1.41	1.89
Diethylphthalate	LCS955577	LCSD955577	103	103	103	0.00	0.00
Dimethylphthalate	LCS955577	LCSD955577	112	112	112	0.00	0.00
Diphenylamine (N-Nitrosodiphenylamine)	LCS955577	LCSD955577	92.0	91.0	91.5	0.707	1.09
Fluoranthene	LCS955577	LCSD955577	109	110	110	0.707	0.913
Fluorene	LCS955577	LCSD955577	105	106	106	0.707	0.948
Hexachlorobenzene	LCS955577	LCSD955577	112	113	113	0.707	0.889
Hexachlorobutadiene	LCS955577	LCSD955577	102	108	105	4.24	5.71
Hexachlorocyclopentadiene	LCS955577	LCSD955577	75.0	68.0	71.5	4.95	9.79
Hexachloroethane	LCS955577	LCSD955577	93.0	101	97.0	5.66	8.25
Indeno(1,2,3-cd)pyrene	LCS955577	LCSD955577	106	109	108	2.12	2.79
Isophorone	LCS955577	LCSD955577	102	105	104	2.12	2.90
N-Nitroso-di-n-propylamine	LCS955577	LCSD955577	100	105	103	3.54	4.88
Naphthalene	LCS955577	LCSD955577	100	105	103	3.54	4.88

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-5 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - WATER SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Nitrobenzene	LCS955577	LCSD955577	100	105	103	3.54	4.88
Pentachlorophenol	LCS955577	LCSD955577	105	104	105	0.707	0.957
Phenanthrene	LCS955577	LCSD955577	106	108	107	1.41	1.87
Phenol	LCS955577	LCSD955577	47.0	51.0	49.0	2.83	8.16
Pyrene	LCS955577	LCSD955577	110	110	110	0.00	0.00
bis(2-Chloroethoxy)methane	LCS955577	LCSD955577	105	108	107	2.12	2.82
bis(2-Chloroethyl)ether	LCS955577	LCSD955577	97.0	104	101	4.95	6.97
bis(2-Chloroisopropyl)ether	LCS955577	LCSD955577	85.0	92.0	88.5	4.95	7.91
bis(2-Ethylhexyl)phthalate	LCS955577	LCSD955577	103	102	103	0.707	0.976
p-Chloroaniline	LCS955577	LCSD955577	95.0	99.0	97.0	2.83	4.12
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Matrix Spike Duplicate							
1,2,4-Trichlorobenzene	G95-SE-MW-03-01	G95-SE-MW-03-01	101	101	101	0.00	0.00
1,4-Dichlorobenzene	G95-SE-MW-03-01	G95-SE-MW-03-01	95.0	95.0	95.0	0.00	0.00
2,4-Dinitrotoluene	G95-SE-MW-03-01	G95-SE-MW-03-01	103	105	104	1.41	1.92
2-Chlorophenol	G95-SE-MW-03-01	G95-SE-MW-03-01	91.0	95.0	93.0	2.83	4.30
4-Chloro-3-methylphenol	G95-SE-MW-03-01	G95-SE-MW-03-01	93.0	99.0	96.0	4.24	6.25
4-Nitrophenol	G95-SE-MW-03-01	G95-SE-MW-03-01	34.0	36.0	35.0	1.41	5.71
Acenaphthene	G95-SE-MW-03-01	G95-SE-MW-03-01	100	100	100	0.00	0.00
N-Nitroso-di-n-propylamine	G95-SE-MW-03-01	G95-SE-MW-03-01	108	109	109	0.707	0.922
Pentachlorophenol	G95-SE-MW-03-01	G95-SE-MW-03-01	104	110	107	4.24	5.61
Phenol	G95-SE-MW-03-01	G95-SE-MW-03-01	38.0	40.0	39.0	1.41	5.13
Pyrene	G95-SE-MW-03-01	G95-SE-MW-03-01	103	106	105	2.12	2.87

Compiled: 6 October 1995

NC = Not C[illegible]lable () = Data Flag

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Method Blank						
08/03/95	Method Blank	BH031.05NA	ND	1.00	mg/kg	1
08/11/95	Method Blank	BG111.05NA	ND	1.00	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.00	
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Method Blank						
08/09/95	Method Blank	BH091.21NA	ND	10.0	mg/kg	1
08/16/95	Method Blank	BH161.21NA	ND	10.0	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		10.0	
Method : SW6010 - Metals						
Analyte : Aluminum						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	1.07 (J)	2.76	mg/kg	1
Total Number of Blanks = 1			Concentration Range:		1.07 - 1.07	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.76	
Method : SW6010 - Metals						
Analyte : Antimony						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.00200 (J)	5.86	mg/kg	1
Total Number of Blanks = 1			Concentration Range:		0.00200 - 0.00200	
Total Number above Detection Limit = 0			Maximum Detection Limit =		5.86	
Method : SW6010 - Metals						
Analyte : Arsenic						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-3.50 (J)	3.47	mg/kg	1
Total Number of Blanks = 1			Concentration Range:		-3.50 - -3.50	
Total Number above Detection Limit = 0			Maximum Detection Limit =		3.47	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Barium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.0770 (J)	0.0697	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.0770 -	-0.0770	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0697		
Method : SW6010 - Metals						
Analyte : Beryllium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.0360	0.0329	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	0.0360 -	0.0360	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.0329		
Method : SW6010 - Metals						
Analyte : Cadmium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-1.19 (J)	0.372	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-1.19 -	-1.19	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.372		
Method : SW6010 - Metals						
Analyte : Calcium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	7.68	1.37	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	7.68 -	7.68	
Total Number above Detection Limit = 1			Maximum Detection Limit =	1.37		
Method : SW6010 - Metals						
Analyte : Chromium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.123 (J)	0.197	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	0.123 -	0.123	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.197		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Cobalt						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.229 (J)	0.538	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	0.229 -	0.229	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.538		
Method : SW6010 - Metals						
Analyte : Copper						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.428 (J)	0.502	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	0.428 -	0.428	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.502		
Method : SW6010 - Metals						
Analyte : Iron						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	1.16	0.509	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	1.16 -	1.16	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.509		
Method : SW6010 - Metals						
Analyte : Lead						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-6.33 (J)	2.12	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-6.33 -	-6.33	
Total Number above Detection Limit = 0			Maximum Detection Limit =	2.12		
Method : SW6010 - Metals						
Analyte : Magnesium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.821 (J)	9.63	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.821 -	-0.821	
Total Number above Detection Limit = 0			Maximum Detection Limit =	9.63		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals Analyte : Manganese Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.00 (J)	0.492	mg/kg	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: 0.00 - 0.00 Maximum Detection Limit = 0.492			
Method : SW6010 - Metals Analyte : Molybdenum Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.00 (J)	0.384	mg/kg	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: 0.00 - 0.00 Maximum Detection Limit = 0.384			
Method : SW6010 - Metals Analyte : Nickel Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.519 (J)	1.14	mg/kg	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.519 - -0.519 Maximum Detection Limit = 1.14			
Method : SW6010 - Metals Analyte : Potassium Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-3.67 (J)	44.1	mg/kg	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -3.67 - -3.67 Maximum Detection Limit = 44.1			
Method : SW6010 - Metals Analyte : Selenium Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-14.5 (J)	5.84	mg/kg	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -14.5 - -14.5 Maximum Detection Limit = 5.84			

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Silver						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.191 (J)	0.443	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.191 -	-0.191	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.443		
Method : SW6010 - Metals						
Analyte : Sodium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	9.78	3.05	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	9.78 -	9.78	
Total Number above Detection Limit = 1			Maximum Detection Limit =	3.05		
Method : SW6010 - Metals						
Analyte : Thallium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.00200 (J)	6.15	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.00200 -	-0.00200	
Total Number above Detection Limit = 0			Maximum Detection Limit =	6.15		
Method : SW6010 - Metals						
Analyte : Vanadium						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	-0.270 (J)	0.292	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.270 -	-0.270	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.292		
Method : SW6010 - Metals						
Analyte : Zinc						
Type of Blank : Method Blank						
08/02/95	BLK953206	EMJA6150802103001	0.0250 (J)	0.347	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	0.0250 -	0.0250	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.347		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW7060 - Arsenic						
Analyte : Arsenic						
Type of Blank : Method Blank						
08/14/95	BLK953577	AAZ4__50814100002	-0.231 (J)	0.104	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.231 -	-0.231	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.104		
Method : SW7421 - Lead						
Analyte : Lead						
Type of Blank : Method Blank						
08/16/95	BLK953581	AAZ1__50816080002	0.109	0.0800	mg/kg	1
08/17/95	BLK953577	AAZ1__50817113001	-0.0630 (J)	0.0800	mg/kg	1
Total Number of Blanks = 2			Concentration Range:	-0.0630 -	0.109	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.0800		
Method : SW7740 - Selenium						
Analyte : Selenium						
Type of Blank : Method Blank						
08/14/95	BLK953577	AAZ3__50814150001	-0.0740 (J)	0.138	mg/kg	1
Total Number of Blanks = 1			Concentration Range:	-0.0740 -	-0.0740	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.138		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDD						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.225	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.225		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDE						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.464	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.464		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDT						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	0.573 (PJ)	0.746	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	0.573 - 0.573		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.746		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Aldrin						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	0.566 (P)	0.292	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	0.566 - 0.566		
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.292		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Chlordane						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	2.40	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	2.40		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Dieldrin						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.403	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.403		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan I						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.910	ug/kg	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.910		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan II						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.380	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.380	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan Sulfate						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.544	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.544	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	1.52	0.726	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		1.52 - 1.52	
Total Number above Detection Limit = 1			Maximum Detection Limit =		0.726	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin Aldehyde						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.400	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.400	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.236	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.236	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor epoxide						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7B50810120001	ND	0.250	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.250	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Methoxychlor						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	5.47	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		5.47	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1016						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	2.44	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.44	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1221						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	2.32	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.32	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1232						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	1.75	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.75	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1242						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	12.0	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		12.0	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1248						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	4.17	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		4.17	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1254						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	3.08	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		3.08	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1260						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	3.49	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		3.49	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Toxaphene						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	4.27	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		4.27	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : alpha-BHC						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.429	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.429	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : beta-BHC						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.339	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.339	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : delta-BHC						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.218	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.218	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : gamma-BHC						
Type of Blank : Method Blank						
08/11/95	BLK953202	CHGC7A50810120001	ND	0.391	ug/kg	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.391	
Method : SW8240 - Volatile Organics						
Analyte : 1,1,1-Trichloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.765	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.765	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.765	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : 1,1,1-Trichloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.765	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	81.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.765	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		81.2	
Method : SW8240 - Volatile Organics						
Analyte : 1,1,2,2-Tetrachloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.09	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.09	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.09	
Method : SW8240 - Volatile Organics						
Analyte : 1,1,2,2-Tetrachloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.09	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	81.3	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.09	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		81.3	
Method : SW8240 - Volatile Organics						
Analyte : 1,1,2-Trichloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.789	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.789	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.789	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : 1,1,2-Trichloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.789	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	69.7	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.789	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		69.7	
Method : SW8240 - Volatile Organics						
Analyte : 1,1-Dichloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.04	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.04	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.04	
Method : SW8240 - Volatile Organics						
Analyte : 1,1-Dichloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.04	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	63.9	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.04	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		63.9	
Method : SW8240 - Volatile Organics						
Analyte : 1,1-Dichloroethene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.728	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.728	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.728	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : 1,1-Dichloroethene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.728	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	80.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.728	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		80.2	
Method : SW8240 - Volatile Organics						
Analyte : 1,2-Dichloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	4.59	0.752	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	3.20	0.752	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		3.20 - 4.59	
Total Number above Detection Limit = 2			Maximum Detection Limit =		0.752	
Method : SW8240 - Volatile Organics						
Analyte : 1,2-Dichloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.752	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	79.1	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.752	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		79.1	
Method : SW8240 - Volatile Organics						
Analyte : 1,2-Dichloropropane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.587	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.587	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.587	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : 1,2-Dichloropropane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.587	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	90.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.587	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		90.2	
Method : SW8240 - Volatile Organics						
Analyte : 2-Chloroethyl vinyl ether						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.842	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.842	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.842	
Method : SW8240 - Volatile Organics						
Analyte : 2-Chloroethyl vinyl ether						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.842	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	143	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.842	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		143	
Method : SW8240 - Volatile Organics						
Analyte : 2-Hexanone						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	2.50	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	2.50	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.50	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : 2-Hexanone						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	2.50	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	170	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	2.50	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		170	
Method : SW8240 - Volatile Organics						
Analyte : 4-Methyl-2-Pentanone(MIBK)						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	2.22	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	2.22	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.22	
Method : SW8240 - Volatile Organics						
Analyte : 4-Methyl-2-Pentanone(MIBK)						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	2.22	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	86.0	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	2.22	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		86.0	
Method : SW8240 - Volatile Organics						
Analyte : Acetone						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	30.1	4.65	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	15.8	4.65	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		15.8 - 30.1	
Total Number above Detection Limit = 2			Maximum Detection Limit =		4.65	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Acetone						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	4.65	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	524	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	4.65	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		524	
Method : SW8240 - Volatile Organics						
Analyte : Benzene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.835	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.835	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.835	
Method : SW8240 - Volatile Organics						
Analyte : Benzene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.835	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	50.3	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.835	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.3	
Method : SW8240 - Volatile Organics						
Analyte : Bromodichloromethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.753	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.753	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.753	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Bromodichloromethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.753	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	53.4	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.753	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		53.4	
Method : SW8240 - Volatile Organics						
Analyte : Bromomethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.03	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.03	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.03	
Method : SW8240 - Volatile Organics						
Analyte : Bromomethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.03	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	77.8	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.03	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		77.8	
Method : SW8240 - Volatile Organics						
Analyte : Carbon disulfide						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.726	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.726	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.726	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Carbon disulfide						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.726	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	68.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.726	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		68.2	
Method : SW8240 - Volatile Organics						
Analyte : Carbon tetrachloride						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.821	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.821	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.821	
Method : SW8240 - Volatile Organics						
Analyte : Carbon tetrachloride						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.821	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	56.6	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.821	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		56.6	
Method : SW8240 - Volatile Organics						
Analyte : Chlorobenzene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.746	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.746	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.746	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Chlorobenzene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.746	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	59.1	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.746	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		59.1	
Method : SW8240 - Volatile Organics						
Analyte : Chloroethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.04	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.04	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.04	
Method : SW8240 - Volatile Organics						
Analyte : Chloroethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.04	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	42.5	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.04	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		42.5	
Method : SW8240 - Volatile Organics						
Analyte : Chloroform						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.01	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	1.93	1.01	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		1.93 - 1.93	
Total Number above Detection Limit = 1			Maximum Detection Limit =		1.01	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Chloroform						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.01	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	67.8	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.01	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		67.8	
Method : SW8240 - Volatile Organics						
Analyte : Chloromethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.909	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.909	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.909	
Method : SW8240 - Volatile Organics						
Analyte : Chloromethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.909	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	57.0	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.909	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		57.0	
Method : SW8240 - Volatile Organics						
Analyte : Dibromochloromethane						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.771	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.771	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.771	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Dibromochloromethane						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.771	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	41.1	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.771	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		41.1	
Method : SW8240 - Volatile Organics						
Analyte : Ethyl benzene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.630	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.630	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.630	
Method : SW8240 - Volatile Organics						
Analyte : Ethyl benzene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.630	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	65.6	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.630	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		65.6	
Method : SW8240 - Volatile Organics						
Analyte : Methyl ethyl ketone						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	3.65	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	3.65	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		3.65	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Methyl ethyl ketone						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	3.65	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	232	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	3.65	ug/kg	1
Total Number of Blanks = 3			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	232		
Method : SW8240 - Volatile Organics						
Analyte : Methylene chloride						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	1.14 (B)	0.868	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	7.52 (B)	0.868	ug/kg	1
Total Number of Blanks = 2			Concentration Range:	1.14 - 7.52		
Total Number above Detection Limit = 2			Maximum Detection Limit =	0.868		
Method : SW8240 - Volatile Organics						
Analyte : Methylene chloride						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	0.413 (J)	0.868	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	84.6	53.3	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	0.389 (J)	0.868	ug/kg	1
Total Number of Blanks = 3			Concentration Range:	0.389 - 84.6		
Total Number above Detection Limit = 1			Maximum Detection Limit =	53.3		
Method : SW8240 - Volatile Organics						
Analyte : Styrene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.841	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.841	ug/kg	1
Total Number of Blanks = 2			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.841		

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Styrene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.841	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	59.6	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.841	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		59.6	
Method : SW8240 - Volatile Organics						
Analyte : Tetrachloroethene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.990	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.990	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.990	
Method : SW8240 - Volatile Organics						
Analyte : Tetrachloroethene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.990	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	67.4	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.990	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		67.4	
Method : SW8240 - Volatile Organics						
Analyte : Toluene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.719	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.719	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.719	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Toluene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.719	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	50.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.719	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.2	
Method : SW8240 - Volatile Organics						
Analyte : Tribromomethane(Bromoform)						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.604	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.604	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.604	
Method : SW8240 - Volatile Organics						
Analyte : Tribromomethane(Bromoform)						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.604	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	46.0	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.604	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		46.0	
Method : SW8240 - Volatile Organics						
Analyte : Trichloroethene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.722	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.722	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.722	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Trichloroethene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.722	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	43.8	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.722	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		43.8	
Method : SW8240 - Volatile Organics						
Analyte : Vinyl acetate						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.836	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.836	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.836	
Method : SW8240 - Volatile Organics						
Analyte : Vinyl acetate						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.836	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	101	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.836	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		101	
Method : SW8240 - Volatile Organics						
Analyte : Vinyl chloride						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.697	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.697	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.697	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : Vinyl chloride						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.697	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	73.8	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.697	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		73.8	
Method : SW8240 - Volatile Organics						
Analyte : cis-1,2-Dichloroethene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.866	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.866	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.866	
Method : SW8240 - Volatile Organics						
Analyte : cis-1,2-Dichloroethene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.866	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	68.7	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.866	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		68.7	
Method : SW8240 - Volatile Organics						
Analyte : cis-1,3-Dichloropropene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.618	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.618	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.618	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : cis-1,3-Dichloropropene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.618	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	51.9	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.618	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		51.9	
Method : SW8240 - Volatile Organics						
Analyte : m&p-Xylenes						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.49	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.49	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.49	
Method : SW8240 - Volatile Organics						
Analyte : m&p-Xylenes						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.49	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	110	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.49	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		110	
Method : SW8240 - Volatile Organics						
Analyte : o-Xylene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.675	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.675	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.675	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : o-Xylene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.675	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	57.9	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.675	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		57.9	
Method : SW8240 - Volatile Organics						
Analyte : trans-1,2-Dichloroethene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	1.05	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	1.05	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.05	
Method : SW8240 - Volatile Organics						
Analyte : trans-1,2-Dichloroethene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	1.05	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	51.2	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	1.05	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		51.2	
Method : SW8240 - Volatile Organics						
Analyte : trans-1,3-Dichloropropene						
Type of Blank : Equipment Blank						
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	ND	0.582	ug/kg	1
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	ND	0.582	ug/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.582	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8240 - Volatile Organics						
Analyte : trans-1,3-Dichloropropene						
Type of Blank : Method Blank						
08/07/95	BLK952833	MSMSDA50807130701	ND	0.582	ug/kg	1
08/08/95	BLK952834	MSMSDA50808135001	ND	43.0	ug/kg	100
08/15/95	BLK953554	MSMSDA50815131101	ND	0.582	ug/kg	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		43.0	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2,4-Trichlorobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0139	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0153	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0153	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0145	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00880	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0145	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0144	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00987	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0144	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0205	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0117	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0205	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,5-Trichlorophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0102	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0152	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0152	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,6-Trichlorophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0226	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0108	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0226	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dichlorophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00790	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0121	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0121	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dimethylphenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0217	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0267	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0267	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0420	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0453	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0453	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrotoluene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0128	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0199	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0199	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,6-Dinitrotoluene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0276	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0159	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0276	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chloronaphthalene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0170	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0274	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0274	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chlorophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0150	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0102	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0150	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylnaphthalene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0220	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0193	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0220	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylphenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00987	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00760	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00987	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitroaniline						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00577	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0180	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0180	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitrophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0164	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0256	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0256	
Method : SW8270 - Semivolatile Organics						
Analyte : 3,3'-Dichlorobenzidine						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0100	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0218	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0218	
Method : SW8270 - Semivolatile Organics						
Analyte : 3-Nitroaniline						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0140	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00903	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0140	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4,6-Dinitro-2-methylphenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.129	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0121	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.129	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Bromophenyl phenyl ether						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0121	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0140	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0140	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chloro-3-methylphenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00607	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0216	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0216	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chlorophenyl phenyl ether						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0211	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00680	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0211	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Methylphenol/3-Methylphenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0134	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0162	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0162	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitroaniline						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0137	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0199	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0199	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitrophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0143	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0390	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0390	
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0144	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0219	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0219	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthylene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0129	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0155	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0155	
Method : SW8270 - Semivolatile Organics						
Analyte : Anthracene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0174	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0210	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0210	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)anthracene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0191	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0206	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0206	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)pyrene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0200	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0169	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0200	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(b)fluoranthene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0180	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0370	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0370	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(g,h,i)perylene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0248	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0211	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0248	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(k)fluoranthene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0313	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0597	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0597	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzoic acid						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.201	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.215	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.215	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzyl alcohol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0370	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0207	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0370	
Method : SW8270 - Semivolatile Organics						
Analyte : Butylbenzylphthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0211	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00760	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0211	
Method : SW8270 - Semivolatile Organics						
Analyte : Chrysene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0205	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0274	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0274	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-butylphthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0195	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0116	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0195	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-octylphthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0301	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0114	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0301	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenz(a,h)anthracene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0257	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0249	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0257	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenzofuran						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0207	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0163	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0207	
Method : SW8270 - Semivolatile Organics						
Analyte : Diethylphthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0142	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0151	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0151	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Dimethylphthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0122	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0112	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0122	
Method : SW8270 - Semivolatile Organics						
Analyte : Diphenylamine (N-Nitrosodiphenylamine)						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0151	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0266	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0266	
Method : SW8270 - Semivolatile Organics						
Analyte : Fluoranthene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0201	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0219	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0219	
Method : SW8270 - Semivolatile Organics						
Analyte : Fluorene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0213	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0194	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0213	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0145	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0259	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0259	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobutadiene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0148	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0198	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0198	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorocyclopentadiene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.182	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.106	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.182	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachloroethane						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0126	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0278	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0278	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Indeno(1,2,3-cd)pyrene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0234	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0287	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0287	
Method : SW8270 - Semivolatile Organics						
Analyte : Isophorone						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0123	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0123	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0123	
Method : SW8270 - Semivolatile Organics						
Analyte : N-Nitroso-di-n-propylamine						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00847	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0192	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0192	
Method : SW8270 - Semivolatile Organics						
Analyte : Naphthalene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0197	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0177	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0197	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Nitrobenzene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0103	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0124	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0124	
Method : SW8270 - Semivolatile Organics						
Analyte : Pentachlorophenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.00577	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0115	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0115	
Method : SW8270 - Semivolatile Organics						
Analyte : Phenanthrene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0241	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0146	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0241	
Method : SW8270 - Semivolatile Organics						
Analyte : Phenol						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0134	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0255	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0255	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Pyrene						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0246	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0201	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0246	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethoxy)methane						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0134	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.00880	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0134	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethyl)ether						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0134	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0137	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0137	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroisopropyl)ether						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0140	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0131	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0140	

TABLE D-6 DETAILED LISTING OF SOLID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Ethylhexyl)phthalate						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0227	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0124	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0227	
Method : SW8270 - Semivolatile Organics						
Analyte : p-Chloroaniline						
Type of Blank : Method Blank						
08/09/95	BLK953230	MSMSD250809110001	ND	0.0139	mg/kg	1
08/15/95	BLK953592	MSMSD150815083701	ND	0.0243	mg/kg	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0243	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Equipment Blank						
08/03/95	G95-13-SS-04-EB	BH021.05NA	ND	50.0	ug/L	1
08/14/95	G95-SE-MW-04-02-EB	BH111.04NA	ND	50.0	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	
Method : AK101 - Gasoline Range Organics						
Analyte : Gasoline						
Type of Blank : Method Blank						
08/02/95	Method Blank	BH021.05NA	ND	50.0	ug/L	1
08/11/95	Method Blank	BG111.05NA	ND	50.0	ug/L	1
08/11/95	Method Blank	BH111.04NA	ND	50.0	ug/L	1
Total Number of Blanks = 3			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Equipment Blank						
08/02/95	G95-13-SS-04-EB	BH011.21NA	ND	100	ug/L	1
08/18/95	G95-SE-MW-04-02-EB	BH161.21NA	ND	100	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		100	
Method : AK102 - Diesel Range Organics						
Analyte : Diesel						
Type of Blank : Method Blank						
08/02/95	Method Blank	BH011.21NA	ND	50.0	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		50.0	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Aluminum						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0289 (J)	0.0523	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0289 - 0.0289		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0523		
Method : SW6010 - Metals						
Analyte : Aluminum						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.0204 (J)	0.0523	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0204 - 0.0204		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0523		
Method : SW6010 - Metals						
Analyte : Antimony						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.0226 (J)	0.0760	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0226 - -0.0226		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0760		
Method : SW6010 - Metals						
Analyte : Antimony						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.0151 (J)	0.0760	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0151 - 0.0151		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0760		
Method : SW6010 - Metals						
Analyte : Arsenic						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0218 (J)	0.0468	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0218 - 0.0218		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0468		

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Arsenic						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.104 (J)	0.0468	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.104 - -0.104		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0468		
Method : SW6010 - Metals						
Analyte : Barium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.000820 (J)	0.000860	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000820 - 0.000820		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000860		
Method : SW6010 - Metals						
Analyte : Barium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.000550 (J)	0.000860	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000550 - 0.000550		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000860		
Method : SW6010 - Metals						
Analyte : Beryllium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00 (J)	0.000510	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00 - 0.00		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000510		
Method : SW6010 - Metals						
Analyte : Beryllium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.000250 (J)	0.000510	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.000250 - -0.000250		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000510		

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Cadmium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.00857 (J)	0.00386	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.00857 - -0.00857			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00386			
Method : SW6010 - Metals						
Analyte : Cadmium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.00586 (J)	0.00386	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.00586 - -0.00586			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00386			
Method : SW6010 - Metals						
Analyte : Calcium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0683 (B)	0.0175	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.0683 - 0.0683			
Total Number above Detection Limit = 1			Maximum Detection Limit = 0.0175			
Method : SW6010 - Metals						
Analyte : Calcium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.0158 (J)	0.0175	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.0158 - 0.0158			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0175			
Method : SW6010 - Metals						
Analyte : Chromium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00599	0.00524	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.00599 - 0.00599			
Total Number above Detection Limit = 1			Maximum Detection Limit = 0.00524			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Chromium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.000470 (J)	0.00524	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.000470 - -0.000470			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00524			
Method : SW6010 - Metals						
Analyte : Cobalt						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00172 (J)	0.00407	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.00172 - 0.00172			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00407			
Method : SW6010 - Metals						
Analyte : Cobalt						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.0104 (J)	0.00407	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.0104 - -0.0104			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00407			
Method : SW6010 - Metals						
Analyte : Copper						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00155 (J)	0.00916	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.00155 - 0.00155			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00916			
Method : SW6010 - Metals						
Analyte : Copper						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00103 (J)	0.00916	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.00103 - 0.00103			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.00916			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals Analyte : Iron Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.104	0.00452	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 1			Concentration Range: 0.104 - 0.104 Maximum Detection Limit = 0.00452			
Method : SW6010 - Metals Analyte : Iron Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00989	0.00452	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 1			Concentration Range: 0.00989 - 0.00989 Maximum Detection Limit = 0.00452			
Method : SW6010 - Metals Analyte : Lead Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0237 (B)	0.0216	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 1			Concentration Range: 0.0237 - 0.0237 Maximum Detection Limit = 0.0216			
Method : SW6010 - Metals Analyte : Lead Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00854 (J)	0.0216	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: 0.00854 - 0.00854 Maximum Detection Limit = 0.0216			
Method : SW6010 - Metals Analyte : Magnesium Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.00125 (J)	0.0479	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.00125 - -0.00125 Maximum Detection Limit = 0.0479			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Magnesium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.0276 (J)	0.0479	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0276 -	-0.0276	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0479		
Method : SW6010 - Metals						
Analyte : Manganese						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00525 (B)	0.00155	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00525 -	0.00525	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00155		
Method : SW6010 - Metals						
Analyte : Manganese						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00312	0.00155	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00312 -	0.00312	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00155		
Method : SW6010 - Metals						
Analyte : Molybdenum						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0134	0.00739	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0134 -	0.0134	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00739		
Method : SW6010 - Metals						
Analyte : Molybdenum						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00115 (J)	0.00739	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00115 -	0.00115	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00739		

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Nickel						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.0157 (J)	0.0141	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.0157 - -0.0157			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0141			
Method : SW6010 - Metals						
Analyte : Nickel						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.0177 (J)	0.0141	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.0177 - -0.0177			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0141			
Method : SW6010 - Metals						
Analyte : Potassium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.571 (J)	0.822	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.571 - 0.571			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.822			
Method : SW6010 - Metals						
Analyte : Potassium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.116 (J)	0.822	mg/L	1
Total Number of Blanks = 1			Concentration Range: 0.116 - 0.116			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.822			
Method : SW6010 - Metals						
Analyte : Selenium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.0355 (J)	0.0891	mg/L	1
Total Number of Blanks = 1			Concentration Range: -0.0355 - -0.0355			
Total Number above Detection Limit = 0			Maximum Detection Limit = 0.0891			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals						
Analyte : Selenium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.0571 (J)	0.0891	mg/L	1
Total Number of Blanks = 1			Concentration Range:	-0.0571 -	-0.0571	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0891		
Method : SW6010 - Metals						
Analyte : Silver						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.000820 (BJ)	0.00519	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.000820 -	0.000820	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00519		
Method : SW6010 - Metals						
Analyte : Silver						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.00560	0.00519	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.00560 -	0.00560	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.00519		
Method : SW6010 - Metals						
Analyte : Sodium						
Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0756	0.0401	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0756 -	0.0756	
Total Number above Detection Limit = 1			Maximum Detection Limit =	0.0401		
Method : SW6010 - Metals						
Analyte : Sodium						
Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	0.0176 (J)	0.0401	mg/L	1
Total Number of Blanks = 1			Concentration Range:	0.0176 -	0.0176	
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.0401		

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW6010 - Metals Analyte : Thallium Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	-0.0440 (J)	0.0833	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.0440 - -0.0440 Maximum Detection Limit = 0.0833			
Method : SW6010 - Metals Analyte : Thallium Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.0549 (J)	0.0833	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.0549 - -0.0549 Maximum Detection Limit = 0.0833			
Method : SW6010 - Metals Analyte : Vanadium Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.00136 (J)	0.00454	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: 0.00136 - 0.00136 Maximum Detection Limit = 0.00454			
Method : SW6010 - Metals Analyte : Vanadium Type of Blank : Method Blank						
08/14/95	BLK953217	EMJA6150814110001	-0.00119 (J)	0.00454	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.00119 - -0.00119 Maximum Detection Limit = 0.00454			
Method : SW6010 - Metals Analyte : Zinc Type of Blank : Equipment Blank						
08/14/95	G95-13-SS-04-EB	EMJA6150814110001	0.0100	0.00402	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 1			Concentration Range: 0.0100 - 0.0100 Maximum Detection Limit = 0.00402			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT		DETECTION LIMIT	UNITS	DILUTION FACTOR
		Method : SW6010 - Metals					
		Analyte : Zinc					
		Type of Blank : Method Blank					
08/14/95	BLK953217	EMJA6150814110001	0.00335	(J)	0.00402	mg/L	1
		Total Number of Blanks = 1			Concentration Range:	0.00335 -	0.00335
		Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00402	
		Method : SW7060 - Arsenic					
		Analyte : Arsenic					
		Type of Blank : Equipment Blank					
08/09/95	G95-13-SS-04-EB	AAZ4__50809083401	-0.00111	(J)	0.00201	mg/L	1
		Total Number of Blanks = 1			Concentration Range:	-0.00111 -	-0.00111
		Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00201	
		Method : SW7060 - Arsenic					
		Analyte : Arsenic					
		Type of Blank : Method Blank					
08/09/95	BLK953215	AAZ4__50809083401	-0.00165	(J)	0.00201	mg/L	1
		Total Number of Blanks = 1			Concentration Range:	-0.00165 -	-0.00165
		Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00201	
		Method : SW7421 - Lead					
		Analyte : Lead					
		Type of Blank : Equipment Blank					
08/09/95	G95-13-SS-04-EB	AAZ3__50809090402	-0.000360	(J)	0.000690	mg/L	1
08/15/95	G95-SE-MW-04-02-EB	AAZ3__50815150903	-0.000650	(J)	0.000690	mg/L	1
		Total Number of Blanks = 2			Concentration Range:	-0.000650 -	-0.000360
		Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000690	
		Method : SW7421 - Lead					
		Analyte : Lead					
		Type of Blank : Method Blank					
08/09/95	BLK953215	AAZ3__50809090402	-0.000890	(J)	0.000690	mg/L	1
08/15/95	BLK953580	AAZ3__50815150903	-0.000410	(J)	0.000690	mg/L	1
		Total Number of Blanks = 2			Concentration Range:	-0.000890 -	-0.000410
		Total Number above Detection Limit = 0			Maximum Detection Limit =	0.000690	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW7740 - Selenium Analyte : Selenium Type of Blank : Equipment Blank						
08/15/95	G95-13-SS-04-EB	AAZ3__50815093001	-0.00189 (J)	0.00124	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.00189 - -0.00189 Maximum Detection Limit = 0.00124			
Method : SW7740 - Selenium Analyte : Selenium Type of Blank : Method Blank						
08/15/95	BLK953215	AAZ3__50815093001	-0.00126 (J)	0.00124	mg/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: -0.00126 - -0.00126 Maximum Detection Limit = 0.00124			
Method : SW8080 - Organochlorine Pesticides and PCBs Analyte : 4,4'-DDD Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00586	ug/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: NC Maximum Detection Limit = 0.00586			
Method : SW8080 - Organochlorine Pesticides and PCBs Analyte : 4,4'-DDD Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00580	ug/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: NC Maximum Detection Limit = 0.00580			
Method : SW8080 - Organochlorine Pesticides and PCBs Analyte : 4,4'-DDE Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00495	ug/L	1
Total Number of Blanks = 1 Total Number above Detection Limit = 0			Concentration Range: NC Maximum Detection Limit = 0.00495			

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDE						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00490	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00490	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDT						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00626	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00626	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : 4,4'-DDT						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00620	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00620	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Aldrin						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00384	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00384	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Aldrin						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00380	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00380	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Chlordane						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0216	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0216	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Chlordane						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0214	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0214	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Dieldrin						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00586	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00586	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Dieldrin						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00580	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00580	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan I						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00303	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00303	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan I						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00300	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00300	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan II						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00545	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00545	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan II						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00540	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00540	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan Sulfate						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00808	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00808	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endosulfan Sulfate						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00800	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00800	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0121	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0121	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0120	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0120	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin Aldehyde						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0193	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0193	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Endrin Aldehyde						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0191	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0191	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00454	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00454	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00450	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00450	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor epoxide						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00293	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00293	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Heptachlor epoxide						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00290	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00290	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Methoxychlor						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0572	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0572	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Methoxychlor						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0566	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0566	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1016						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0522	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0522	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1016						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0517	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0517	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1221						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0290	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0290	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1221						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0287	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0287	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1232						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0410	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0410	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1232						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0406	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0406	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1242						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0297	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0297	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1242						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0294	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0294	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1248						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0275	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0275	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1248						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0272	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0272	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1254						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00980	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00980	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1254						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00970	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00970	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1260						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.0412	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0412	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : PCB-1260						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.0408	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.0408	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Toxaphene						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.119	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.119	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : Toxaphene						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.118	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.118	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : alpha-BHC						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00232	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00232	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : alpha-BHC						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00230	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00230	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : beta-BHC						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00404	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00404	
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : beta-BHC						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00400	ug/L	1
Total Number of Blanks = 1			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.00400	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : delta-BHC						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	0.00110 (KJ)	0.00303	ug/L	1
Total Number of Blanks = 1			Concentration Range:	0.00110 - 0.00110		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00303		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : delta-BHC						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8A50808120001	ND	0.00260	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00260		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : gamma-BHC						
Type of Blank : Equipment Blank						
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	ND	0.00202	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00202		
Method : SW8080 - Organochlorine Pesticides and PCBs						
Analyte : gamma-BHC						
Type of Blank : Method Blank						
08/09/95	BLK953181 B	CHGC8B50808120001	ND	0.00200	ug/L	1
Total Number of Blanks = 1			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	0.00200		
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2,4-Trichlorobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.60	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.61	ug/L	1
Total Number of Blanks = 2			Concentration Range:	NC		
Total Number above Detection Limit = 0			Maximum Detection Limit =	1.61		

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2,4-Trichlorobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.65	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.53	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.65	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.34	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.48	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.48	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,2-Dichlorobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.38	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.41	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.41	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.34	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.54	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.54	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 1,3-Dichlorobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.38	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.46	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.46	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.33	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.58	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.58	
Method : SW8270 - Semivolatile Organics						
Analyte : 1,4-Dichlorobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.37	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.50	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.50	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,5-Trichlorophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.964	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.476	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.964	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,5-Trichlorophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.993	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.452	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.993	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,6-Trichlorophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.339	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.289	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.339	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4,6-Trichlorophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.349	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.275	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.349	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dichlorophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.478	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.349	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.478	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dichlorophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.492	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.332	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.492	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dimethylphenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.50	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.28	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.50	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dimethylphenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.54	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.22	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.54	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	2.00	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	2.84	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.84	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	2.06	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	2.70	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.70	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrotoluene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.413	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.487	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.487	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,4-Dinitrotoluene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.425	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.463	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.463	
Method : SW8270 - Semivolatile Organics						
Analyte : 2,6-Dinitrotoluene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.981	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.512	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.981	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2,6-Dinitrotoluene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.01	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.486	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.01	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chloronaphthalene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	2.03	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.32	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.03	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chloronaphthalene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	2.09	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.25	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.09	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chlorophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.325	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.427	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.427	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Chlorophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.335	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.406	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.406	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylnaphthalene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.32	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.79	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.79	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylnaphthalene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.36	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.70	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.70	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylphenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.791	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.532	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.791	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Methylphenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.815	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.505	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.815	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitroaniline						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.521	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.567	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.567	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitroaniline						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.537	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.539	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.539	
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitrophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.491	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.360	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.491	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 2-Nitrophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.506	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.342	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.506	
Method : SW8270 - Semivolatile Organics						
Analyte : 3,3'-Dichlorobenzidine						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.705	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.363	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.705	
Method : SW8270 - Semivolatile Organics						
Analyte : 3,3'-Dichlorobenzidine						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.726	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.345	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.726	
Method : SW8270 - Semivolatile Organics						
Analyte : 3-Nitroaniline						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.721	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.495	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.721	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 3-Nitroaniline						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.743	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.470	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.743	
Method : SW8270 - Semivolatile Organics						
Analyte : 4,6-Dinitro-2-methylphenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.54	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.921	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.54	
Method : SW8270 - Semivolatile Organics						
Analyte : 4,6-Dinitro-2-methylphenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.59	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.875	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.59	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Bromophenyl phenyl ether						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	2.08	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.69	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.08	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Bromophenyl phenyl ether						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	2.14	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.61	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.14	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chloro-3-methylphenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.262	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.267	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.267	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chloro-3-methylphenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.270	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.254	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.270	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chlorophenyl phenyl ether						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	2.33	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	2.58	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.58	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Chlorophenyl phenyl ether						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	2.40	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	2.45	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		2.45	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Methylphenol/3-Methylphenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.449	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.591	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.591	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Methylphenol/3-Methylphenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.462	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.561	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.561	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitroaniline						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.693	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.636	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.693	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitroaniline						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.714	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.604	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.714	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitrophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.07	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.28	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.28	
Method : SW8270 - Semivolatile Organics						
Analyte : 4-Nitrophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.10	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.22	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.22	
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.01	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.980	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.01	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.04	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.931	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.04	
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthylene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.07	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.977	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.07	
Method : SW8270 - Semivolatile Organics						
Analyte : Acenaphthylene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.10	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.928	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.10	
Method : SW8270 - Semivolatile Organics						
Analyte : Anthracene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.645	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.426	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.645	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Anthracene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.664	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.405	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.664	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)anthracene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.261	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.447	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.447	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)anthracene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.269	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.425	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.425	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)pyrene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.554	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.348	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.554	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(a)pyrene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.571	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.331	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.571	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(b)fluoranthene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.905	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.849	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.905	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(b)fluoranthene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.932	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.807	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.932	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(g,h,i)perylene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.703	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.486	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.703	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(g,h,i)perylene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.724	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.462	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.724	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(k)fluoranthene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.807	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.616	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.807	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzo(k)fluoranthene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.831	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.585	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.831	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzoic acid						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	6.91	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	6.35	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		6.91	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Benzoic acid						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	7.12	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	6.03	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		7.12	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzyl alcohol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.74	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.433	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.74	
Method : SW8270 - Semivolatile Organics						
Analyte : Benzyl alcohol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.79	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.411	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.79	
Method : SW8270 - Semivolatile Organics						
Analyte : Butylbenzylphthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.544	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.413	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.544	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Butylbenzylphthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.560	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.392	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.560	
Method : SW8270 - Semivolatile Organics						
Analyte : Chrysene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.336	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.516	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.516	
Method : SW8270 - Semivolatile Organics						
Analyte : Chrysene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.346	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.490	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.490	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-butylphthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.715	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.378	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.715	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-butylphthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.736	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.359	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.736	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-octylphthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.05	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.680	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.05	
Method : SW8270 - Semivolatile Organics						
Analyte : Di-n-octylphthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.08	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.646	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.08	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenz(a,h)anthracene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.692	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.516	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.692	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenz(a,h)anthracene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.713	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.490	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.713	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenzofuran						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.622	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.781	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.781	
Method : SW8270 - Semivolatile Organics						
Analyte : Dibenzofuran						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.641	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.742	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.742	
Method : SW8270 - Semivolatile Organics						
Analyte : Diethylphthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.476	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.344	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.476	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Diethylphthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.490	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.327	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.490	
Method : SW8270 - Semivolatile Organics						
Analyte : Dimethylphthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.237	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.284	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.284	
Method : SW8270 - Semivolatile Organics						
Analyte : Dimethylphthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.244	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.270	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.270	
Method : SW8270 - Semivolatile Organics						
Analyte : Diphenylamine (N-Nitrosodiphenylamine)						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.642	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.584	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.642	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Diphenylamine (N-Nitrosodiphenylamine)						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.661	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.555	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.661	
Method : SW8270 - Semivolatile Organics						
Analyte : Fluoranthene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.601	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.378	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.601	
Method : SW8270 - Semivolatile Organics						
Analyte : Fluoranthene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.619	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.359	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.619	
Method : SW8270 - Semivolatile Organics						
Analyte : Fluorene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.742	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.922	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.922	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Fluorene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.764	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.876	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.876	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	6.90	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.953	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		6.90	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	7.11	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.905	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		7.11	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobutadiene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.79	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.65	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.79	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorobutadiene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.84	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.57	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.84	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorocyclopentadiene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	3.49	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	5.35	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		5.35	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachlorocyclopentadiene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	3.59	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	5.08	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		5.08	
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachloroethane						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.11	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.27	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.27	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Hexachloroethane						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.14	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.21	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.21	
Method : SW8270 - Semivolatile Organics						
Analyte : Indeno(1,2,3-cd)pyrene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.708	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.577	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.708	
Method : SW8270 - Semivolatile Organics						
Analyte : Indeno(1,2,3-cd)pyrene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.729	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.548	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.729	
Method : SW8270 - Semivolatile Organics						
Analyte : Isophorone						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.571	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.646	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.646	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Isophorone						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.588	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.614	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.614	
Method : SW8270 - Semivolatile Organics						
Analyte : N-Nitroso-di-n-propylamine						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.390	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.932	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.932	
Method : SW8270 - Semivolatile Organics						
Analyte : N-Nitroso-di-n-propylamine						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.402	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.885	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.885	
Method : SW8270 - Semivolatile Organics						
Analyte : Naphthalene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	1.57	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.66	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.66	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Naphthalene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	1.62	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.58	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.62	
Method : SW8270 - Semivolatile Organics						
Analyte : Nitrobenzene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.851	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.05	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.05	
Method : SW8270 - Semivolatile Organics						
Analyte : Nitrobenzene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.877	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.00	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.00	
Method : SW8270 - Semivolatile Organics						
Analyte : Pentachlorophenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.527	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.321	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.527	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Pentachlorophenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.543	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.305	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.543	
Method : SW8270 - Semivolatile Organics						
Analyte : Phenanthrene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.801	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.634	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.801	
Method : SW8270 - Semivolatile Organics						
Analyte : Phenanthrene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.825	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.602	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.825	
Method : SW8270 - Semivolatile Organics						
Analyte : Phenol						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.381	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.459	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.459	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : Phenol						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.392	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.436	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.436	
Method : SW8270 - Semivolatile Organics						
Analyte : Pyrene						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.454	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.599	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.599	
Method : SW8270 - Semivolatile Organics						
Analyte : Pyrene						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.468	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.569	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.569	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethoxy)methane						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.525	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.414	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.525	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethoxy)methane						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.541	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.393	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.541	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethyl)ether						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.538	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.906	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.906	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroethyl)ether						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.554	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.861	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.861	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroisopropyl)ether						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.811	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	1.80	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.80	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Chloroisopropyl)ether						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.835	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	1.71	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		1.71	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Ethylhexyl)phthalate						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.727	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.512	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.727	
Method : SW8270 - Semivolatile Organics						
Analyte : bis(2-Ethylhexyl)phthalate						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.749	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.486	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.749	
Method : SW8270 - Semivolatile Organics						
Analyte : p-Chloroaniline						
Type of Blank : Equipment Blank						
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	ND	0.616	ug/L	1
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	ND	0.695	ug/L	1
Total Number of Blanks = 2			Concentration Range:		NC	
Total Number above Detection Limit = 0			Maximum Detection Limit =		0.695	

TABLE D-7 DETAILED LISTING OF LIQUID BLANKS RESULTS - SOIL SAMPLES GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	RESULT	DETECTION LIMIT	UNITS	DILUTION FACTOR
Method : SW8270 - Semivolatile Organics						
Analyte : p-Chloroaniline						
Type of Blank : Method Blank						
08/04/95	BLK953194	MSMSD150804083501	ND	0.634	ug/L	1
08/10/95	BLK953522	MSMSD250810131301	ND	0.660	ug/L	1

Total Number of Blanks = 2 Concentration Range: NC
Total Number above Detection Limit = 0 Maximum Detection Limit = 0.660

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Gasoline							
Type of Spike : Laboratory Control							
08/03/95	LCS	BH031.05NA	NA	20.0	22.0	mg/kg	110
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 110			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Gasoline							
Type of Spike : Matrix Spike							
08/11/95	G95-SE-MW-02-02	BG111.05NA	0.480	3.20	0.480 (J)	mg/kg	100
08/11/95	G95-SE-MW-02-02	BG111.05NA	0.480	3.20	0.480 (J)	mg/kg	109
08/03/95	G95-13-SS-06	BH031.05NA	0.0990	20.0	0.0990 (J)	mg/kg	80.0
08/03/95	G95-13-SS-06	BH031.05NA	0.0990	20.0	0.0990 (J)	mg/kg	90.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 94.8			Above acceptance : 0				
Standard Deviation : 12.5			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Laboratory Control							
08/03/95	LCS	BH031.05NA	NA	100	132	mg/kg	132
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 132			Above acceptance : 1				
Standard Deviation : NC			Acceptance Criteria 60-120				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Matrix Spike							
08/11/95	G95-SE-MW-02-02	BG111.05NA	NA	100	97.0	mg/kg	97.0
08/11/95	G95-SE-MW-02-02	BG111.05NA	NA	100	97.0	mg/kg	97.0
08/03/95	G95-13-SS-06	BH031.05NA	NA	100	98.0	mg/kg	98.0
08/03/95	G95-13-SS-06	BH031.05NA	NA	100	103	mg/kg	103
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 98.8			Above acceptance : 0				
Standard Deviation : 2.87			Acceptance Criteria 50-150				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Method Blank							
08/11/95	Method Blank	BG111.05NA	NA	100	99.0	mg/kg	99.0
08/03/95	Method Blank	BH031.05NA	NA	100	101	mg/kg	1[illegible]
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Normal Sample							
08/11/95	G95-SE-MW-02-02	BG111.05NA	NA	100	92.0	mg/kg	92.0
08/11/95	G95-SE-MW-03-02	BG111.05NA	NA	100	97.0	mg/kg	97.0
08/11/95	G95-SE-MW-04-02	BG111.05NA	NA	100	94.0	mg/kg	94.0
08/11/95	G95-SE-SS-01	BG111.05NA	NA	100	80.0	mg/kg	80.0
08/03/95	G95-13-SS-01	BH031.05NA	NA	100	99.0	mg/kg	99.0
08/03/95	G95-13-SS-02	BH031.05NA	NA	100	100	mg/kg	100
08/03/95	G95-13-SS-03	BH031.05NA	NA	100	92.0	mg/kg	92.0
08/03/95	G95-13-SS-04	BH031.05NA	NA	100	93.0	mg/kg	93.0
08/03/95	G95-13-SS-05	BH031.05NA	NA	100	74.0	mg/kg	74.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Normal Sample, cont.							
08/03/95	G95-13-SS-06	BH031.05NA	NA	100	87.0	mg/kg	87.0
08/03/95	G95-SE-SB-01-01	BH031.05NA	NA	100	86.0	mg/kg	86.0
08/03/95	G95-SE-SB-01-02	BH031.05NA	NA	100	159 (i)	mg/kg	159 (i)
08/03/95	G95-SE-SB-02-01	BH031.05NA	NA	100	89.0	mg/kg	89.0
08/03/95	G95-SE-SB-02-02	BH031.05NA	NA	100	93.0	mg/kg	93.0
08/03/95	G95-SE-SB-03-01	BH031.05NA	NA	100	89.0	mg/kg	89.0
08/03/95	G95-SE-SB-03-02	BH031.05NA	NA	100	135	mg/kg	135
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 97.4			Above acceptance : 1				
Standard Deviation : 20.9			Acceptance Criteria 50-150				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Diesel							
Type of Spike : Laboratory Control							
08/09/95	LCS	BH091.21NA	NA	67.0	51.3	mg/kg	77.0
08/09/95	LCSD	BH091.21NA	NA	67.0	60.4	mg/kg	90.0
08/16/95	LCS	BH161.21NA	NA	67.0	64.0	mg/kg	96.0
08/16/95	LCSD	BH161.21NA	NA	67.0	66.0	mg/kg	102
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 91.3			Above acceptance : 0				
Standard Deviation : 10.7			Acceptance Criteria 75-125				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Diesel							
Type of Spike : Matrix Spike							
08/11/95	G95-SE-SB-02-01	BH091.21NA	120	67.0	160	mg/kg	60.0
08/16/95	G95-SE-SB-02-01	BH091.21NA	120	67.0	167	mg/kg	70.0
08/16/95	G95-SE-MW-02-02	BH161.21NA	0.00	67.0	0.00 (J)	mg/kg	99.0
08/16/95	G95-SE-MW-02-02	BH161.21NA	0.00	67.0	0.00 (J)	mg/kg	107
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 84.0			Above acceptance : 0				
Standard Deviation : 22.6			Acceptance Criteria 60-120				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Laboratory Control							
08/09/95	LCS	BH091.21NA	NA	100	129	mg/kg	129
08/09/95	LCSD	BH091.21NA	NA	100	118	mg/kg	118
08/16/95	LCS	BH161.21NA	NA	100	98.0	mg/kg	98.0
08/16/95	LCSD	BH161.21NA	NA	100	96.0	mg/kg	96.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 110			Above acceptance : 1				
Standard Deviation : 16.0			Acceptance Criteria 60-120				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Matrix Spike							
08/11/95	G95-SE-SB-02-01	BH091.21NA	NA	150	263 (i)	mg/kg	175
08/16/95	G95-SE-SB-02-01	BH091.21NA	NA	100	173 (i)	mg/kg	[illegible]
08/16/95	G95-SE-MW-02-02	BH161.21NA	NA	100	104	mg/kg	[illegible]
08/16/95	G95-SE-MW-02-02	BH161.21NA	NA	100	102	mg/kg	102
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 139			Above acceptance : 2				
Standard Deviation : 41.0			Acceptance Criteria 50-150				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Method Blank							
08/09/95	Method Blank	BH091.21NA	NA	100	136	mg/kg	136
08/16/95	Method Blank	BH161.21NA	NA	100	79.0	mg/kg	79.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 108			Above acceptance : 1				
Standard Deviation : NC			Acceptance Criteria 60-120				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Normal Sample							
08/09/95	G95-13-SS-01	BH091.21NA	NA	100	113	mg/kg	113
08/09/95	G95-13-SS-03	BH091.21NA	NA	100	89.0	mg/kg	89.0
08/09/95	G95-13-SS-05	BH091.21NA	NA	100	1156 (i)	mg/kg	1156 (i)
08/09/95	G95-13-SS-06	BH091.21NA	NA	100	115	mg/kg	115
08/10/95	G95-13-SS-04	BH091.21NA	NA	100	100	mg/kg	100
08/11/95	G95-13-SS-02	BH091.21NA	NA	100	255 (i)	mg/kg	255 (i)
08/11/95	G95-SE-SB-01-01	BH091.21NA	NA	100	121	mg/kg	121
08/11/95	G95-SE-SB-02-01	BH091.21NA	NA	100	99.0	mg/kg	99.0
08/11/95	G95-SE-SB-03-01	BH091.21NA	NA	100	96.0	mg/kg	96.0
08/11/95	G95-SE-SB-03-02	BH091.21NA	NA	100	2.00 (h)	mg/kg	DO
08/14/95	G95-SE-SB-01-02	BH091.21NA	NA	100	5.00 (h)	mg/kg	DO
08/16/95	G95-SE-SB-02-02	BH091.21NA	NA	100	132	mg/kg	132
08/17/95	G95-SE-MW-02-02	BH161.21NA	NA	100	76.0	mg/kg	76.0
08/17/95	G95-SE-MW-03-02	BH161.21NA	NA	100	76.0	mg/kg	76.0
08/17/95	G95-SE-MW-04-02	BH161.21NA	NA	100	86.0	mg/kg	86.0
08/17/95	G95-SE-SS-01	BH161.21NA	NA	100	135	mg/kg	135
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 189			Above acceptance : 2				
Standard Deviation : 282			Acceptance Criteria 50-150				
Method : SW6010 - Metals							
Spiked Analyte : Aluminum							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	5560	5870	mg/kg	106
08/02/95	218YD954942	EMJA6150802103001	NA	5560	5170	mg/kg	93.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals Spiked Analyte : Aluminum Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	6090	4720	12000	mg/kg	125
08/02/95	G95-13-SS-02	EMJA6150802103001	6090	4550	11300	mg/kg	114

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 120	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals Spiked Analyte : Antimony Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	43.9	35.9	mg/kg	82.0
08/02/95	218YD954942	EMJA6150802103001	NA	43.9	83.7	mg/kg	191

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 137	Above acceptance :	1
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals Spiked Analyte : Antimony Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	12.9	94.4	107	mg/kg	99.0
08/02/95	G95-13-SS-02	EMJA6150802103001	12.9	91.0	101	mg/kg	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	128	130	mg/kg	102
08/02/95	218YD954942	EMJA6150802103001	NA	128	110	mg/kg	86.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	30.4	91.0	98.9	mg/kg	75.0
08/02/95	G95-13-SS-02	EMJA6150802103001	30.4	94.4	102	mg/kg	76.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 75.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Barium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	284	283	mg/kg	100
08/02/95	218YD954942	EMJA6150802103001	NA	284	275	mg/kg	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Barium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	74.9	91.0	227	mg/kg	167
08/02/95	G95-13-SS-02	EMJA6150802103001	74.9	94.4	194	mg/kg	127

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 147 — Above acceptance : 2
Standard Deviation : NC — Acceptance Criteria 75-125

Method : SW6010 - Metals							
Spiked Analyte : Beryllium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	95.1	92.8	mg/kg	98.0
08/02/95	218YD954942	EMJA6150802103001	NA	95.1	89.9	mg/kg	94.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 96.0 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 80-120

Method : SW6010 - Metals							
Spiked Analyte : Beryllium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	0.0294	94.4	85.4	mg/kg	90.0
08/02/95	G95-13-SS-02	EMJA6150802103001	0.0294	91.0	81.7	mg/kg	90.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 90.0 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 75-125

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Cadmium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	102	92.0	mg/kg	90.0
08/02/95	218YD954942	EMJA6150802103001	NA	102	89.4	mg/kg	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Cadmium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	-0.870	91.0	76.2	mg/kg	85.0
08/02/95	G95-13-SS-02	EMJA6150802103001	-0.870	94.4	78.2	mg/kg	84.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 84.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	3680	3590	mg/kg	98.0
08/02/95	218YD954942	EMJA6150802103001	NA	3680	3480	mg/kg	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	3390	4550	8010	mg/kg	102
08/02/95	G95-13-SS-02	EMJA6150802103001	3390	4720	8390	mg/kg	106
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 104			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Chromium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	154	153	mg/kg	99.0
08/02/95	218YD954942	EMJA6150802103001	NA	154	147	mg/kg	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Chromium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	10.3	91.0	92.7	mg/kg	90.0
08/02/95	G95-13-SS-02	EMJA6150802103001	10.3	94.4	94.8	mg/kg	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	91.3	89.9	mg/kg	98.0
08/02/95	218YD954942	EMJA6150802103001	NA	91.3	89.9	mg/kg	99.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	7.32	91.0	82.0	mg/kg	82.0
08/02/95	G95-13-SS-02	EMJA6150802103001	7.32	94.4	87.1	mg/kg	85.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 83.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Copper							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	119	114	mg/kg	96.0
08/02/95	218YD954942	EMJA6150802103001	NA	119	112	mg/kg	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Copper							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	8.82	91.0	89.0	mg/kg	88.0
08/02/95	G95-13-SS-02	EMJA6150802103001	8.82	94.4	93.1	mg/kg	89.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 88.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	8640	9610	mg/kg	111
08/02/95	218YD954942	EMJA6150802103001	NA	8640	9500	mg/kg	110

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	12300	4720	15200	mg/kg	62.0
08/02/95	G95-13-SS-02	EMJA6150802103001	12300	4550	13600	mg/kg	30.0

Number of Samples	: 2	Below acceptance :	2
Mean % Recovery	: 46.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	147	124	mg/kg	84.0
08/02/95	218YD954942	EMJA6150802103001	NA	147	124	mg/kg	85.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 84.5 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 80-120

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Lead							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	12.2	94.4	92.2	mg/kg	85.0
08/02/95	G95-13-SS-02	EMJA6150802103001	12.2	91.0	82.1	mg/kg	77.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 81.0 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 75-125

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	1830	1900	mg/kg	104
08/02/95	218YD954942	EMJA6150802103001	NA	1830	1820	mg/kg	99.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 102 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	3080	4720	7450	mg/kg	93.0
08/02/95	G95-13-SS-02	EMJA6150802103001	3080	4550	6840	mg/kg	83.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 88.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Manganese							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	191	196	mg/kg	103
08/02/95	218YD954942	EMJA6150802103001	NA	191	189	mg/kg	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Manganese							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	212	94.4	278	mg/kg	69.0
08/02/95	G95-13-SS-02	EMJA6150802103001	212	91.0	260	mg/kg	53.0
Number of Samples : 2			Below acceptance : 2				
Mean % Recovery : 61.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Molybdenum							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	142	135	mg/kg	95.0
08/02/95	218YD954942	EMJA6150802103001	NA	142	137	mg/kg	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Molybdenum							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	1.64	94.4	84.2	mg/kg	88.0
08/02/95	G95-13-SS-02	EMJA6150802103001	1.64	91.0	80.0	mg/kg	86.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 87.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Nickel							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	151	152	mg/kg	101
08/02/95	218YD954942	EMJA6150802103001	NA	151	146	mg/kg	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Nickel							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	18.1	91.0	88.9	mg/kg	78.0
08/02/95	G95-13-SS-02	EMJA6150802103001	18.1	94.4	96.2	mg/kg	83.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 80.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Potassium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	2600	2560	mg/kg	98.0
08/02/95	218YD954942	EMJA6150802103001	NA	2600	2350	mg/kg	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Potassium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	483	4550	4770	mg/kg	94.0
08/02/95	G95-13-SS-02	EMJA6150802103001	483	4720	4910	mg/kg	94.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Selenium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	101	76.0	mg/kg	75.0
08/02/95	218YD954942	EMJA6150802103001	NA	101	72.0	mg/kg	71.0
Number of Samples : 2			Below acceptance : 2				
Mean % Recovery : 73.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Selenium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	-4.84	91.0	78.9	mg/kg	92.0
08/02/95	G95-13-SS-02	EMJA6150802103001	-4.84	94.4	63.5	mg/kg	72.0
Number of Samples : 2			Below acceptance : 1				
Mean % Recovery : 82.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	92.5	80.9	mg/kg	87.0
08/02/95	218YD954942	EMJA6150802103001	NA	92.5	81.0	mg/kg	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 87.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	-0.703	91.0	73.3	mg/kg	81.0
08/02/95	G95-13-SS-02	EMJA6150802103001	-0.703	94.4	78.5	mg/kg	84.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 82.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Sodium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	594	611	mg/kg	103
08/02/95	218YD954942	EMJA6150802103001	NA	594	581	mg/kg	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Sodium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	136	4550	4500	mg/kg	96.0
08/02/95	G95-13-SS-02	EMJA6150802103001	136	4720	4640	mg/kg	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	75-125

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Thallium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	102	98.2	mg/kg	96.0
08/02/95	218YD954942	EMJA6150802103001	NA	102	104	mg/kg	102

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 99.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Thallium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	-1.18	94.4	117	mg/kg	125
08/02/95	G95-13-SS-02	EMJA6150802103001	-1.18	91.0	122	mg/kg	135

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 130	Above acceptance :	1
Standard Deviation	: NC	Acceptance Criteria	75-125

Method : SW6010 - Metals							
Spiked Analyte : Vanadium							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	81.8	80.7	mg/kg	99.0
08/02/95	218YD954942	EMJA6150802103001	NA	81.8	80.0	mg/kg	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	80-120

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Vanadium							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	24.5	94.4	114	mg/kg	95.0
08/02/95	G95-13-SS-02	EMJA6150802103001	24.5	91.0	106	mg/kg	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 92.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Laboratory Control							
08/02/95	218Y954942	EMJA6150802103001	NA	111	105	mg/kg	94.0
08/02/95	218YD954942	EMJA6150802103001	NA	111	105	mg/kg	94.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Matrix Spike							
08/02/95	G95-13-SS-02	EMJA6150802103001	28.9	94.4	106	mg/kg	82.0
08/02/95	G95-13-SS-02	EMJA6150802103001	28.9	91.0	103	mg/kg	81.0
08/02/95	G95-13-SS-02	EMJA6150802103001	28.9	91.0	102	mg/kg	80.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 81.0			Above acceptance : 0				
Standard Deviation : 1.00			Acceptance Criteria 75-125				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7060 - Arsenic							
Spiked Analyte : Arsenic							
Type of Spike : Analytical Spike							
08/14/95	G95-13-SS-02	AAZ4__50814100002	3.37	3.52	6.62	mg/kg	92.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 85-115				
Method : SW7060 - Arsenic							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control							
08/14/95	218Y955541	AAZ4__50814100002	NA	128	132	mg/kg	103
08/14/95	218YD955541	AAZ4__50814100002	NA	128	138	mg/kg	108
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW7060 - Arsenic							
Spiked Analyte : Arsenic							
Type of Spike : Matrix Spike							
08/14/95	G95-13-SS-02	AAZ4__50814100002	3.37	14.6	19.2	mg/kg	109
08/14/95	G95-13-SS-02	AAZ4__50814100002	3.37	15.0	18.7	mg/kg	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Analytical Spike							

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Analytical Spike, cont.							
08/16/95	G95-SE-SS-01	AAZ1__50816080002	8.77	5.49	13.4 (X)	mg/kg	84.0
08/17/95	G95-13-SS-02	AAZ1__50817113001	10.1	7.03	16.1	mg/kg	86.0

Number of Samples	: 2	Below acceptance :	1
Mean % Recovery	: 85.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	85-115

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/16/95	218Z955547	AAZ1__50816080002	NA	147	157	mg/kg	107
08/16/95	218ZD955547	AAZ1__50816080002	NA	147	155	mg/kg	106
08/17/95	218Y955541	AAZ1__50817113001	NA	147	148	mg/kg	101
08/17/95	218YD955541	AAZ1__50817113001	NA	147	148	mg/kg	101

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 3.20	Acceptance Criteria	75-125

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Matrix Spike							
08/16/95	G95-SE-SS-01	AAZ1__50816080002	8.77	20.6	28.9	mg/kg	97.0
08/16/95	G95-SE-SS-01	AAZ1__50816080002	8.77	23.0	31.1	mg/kg	97.0
08/17/95	G95-13-SS-02	AAZ1__50817113001	10.1	14.6	26.5	mg/kg	112
08/17/95	G95-13-SS-02	AAZ1__50817113001	10.1	15.0	26.0	mg/kg	106

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 7.35	Acceptance Criteria	75-125

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7740 - Selenium							
Spiked Analyte : Selenium							
Type of Spike : Analytical Spike							
08/14/95	G95-13-SS-02	AAZ3__50814150001	0.0712	1.76	1.82	mg/kg	100
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 85-115				
Method : SW7740 - Selenium							
Spiked Analyte : Selenium							
Type of Spike : Laboratory Control							
08/14/95	218Y955541	AAZ3__50814150001	NA	101	94.6	mg/kg	94.0
08/14/95	218YD955541	AAZ3__50814150001	NA	101	96.2	mg/kg	95.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 94.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW7740 - Selenium							
Spiked Analyte : Selenium							
Type of Spike : Matrix Spike							
08/14/95	G95-13-SS-02	AAZ3__50814150001	0.0712	3.75	3.39	mg/kg	88.0
08/14/95	G95-13-SS-02	AAZ3__50814150001	0.0712	3.65	3.41	mg/kg	92.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 4,4'-DDT							
Type of Spike : Laboratory Control							

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 4,4'-DDT							
Type of Spike : Laboratory Control, cont.							
08/11/95	LCS954934	CHGC7A50810120001	NA	50.0	46.9	ug/kg	94.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	50.0	46.9	ug/kg	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	25-160

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 4,4'-DDT							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	53.0	51.1	95.3	ug/kg	83.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	53.0	51.3	105	ug/kg	102

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 92.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	25-160

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Aldrin							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	23.9	ug/kg	95.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	23.6	ug/kg	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	42-122

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Aldrin							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.727	20.4	18.4	ug/kg	86.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.727	20.5	19.2	ug/kg	90.0

Number of Samples : 2 | Below acceptance : 0
Mean % Recovery : 88.0 | Above acceptance : 0
Standard Deviation : NC | Acceptance Criteria 42-122

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dieldrin							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	50.0	45.6	ug/kg	91.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	50.0	45.3	ug/kg	91.0

Number of Samples : 2 | Below acceptance : 0
Mean % Recovery : 91.0 | Above acceptance : 0
Standard Deviation : NC | Acceptance Criteria 36-146

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dieldrin							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.818	51.1	45.8	ug/kg	88.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.818	51.3	46.8	ug/kg	90.0

Number of Samples : 2 | Below acceptance : 0
Mean % Recovery : 89.0 | Above acceptance : 0
Standard Deviation : NC | Acceptance Criteria 36-146

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endosulfan II							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	50.0	45.3	ug/kg	91.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	50.0	45.3	ug/kg	91.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-202

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endrin							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	50.0	41.9	ug/kg	84.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	50.0	43.2	ug/kg	86.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 85.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	30-147

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endrin							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.548	51.1	49.3	ug/kg	95.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.548	51.3	50.6	ug/kg	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	30-147

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endrin Aldehyde							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	50.0	37.8	ug/kg	76.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	50.0	45.6	ug/kg	91.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 83.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	25-120

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Heptachlor							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	23.6	ug/kg	95.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	23.4	ug/kg	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	34-120

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Heptachlor							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.198	20.5	18.0	ug/kg	87.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.198	20.4	17.6	ug/kg	85.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 86.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	34-120

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Heptachlor epoxide							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	24.5	ug/kg	98.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	24.3	ug/kg	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	37-142

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : PCB-1016							
Type of Spike : Laboratory Control							
08/11/95	LCS954935	CHGC7A50810120001	NA	250	222	ug/kg	89.0
08/11/95	LCSD954935	CHGC7A50810120001	NA	250	233	ug/kg	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	50-120

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : PCB-1260							
Type of Spike : Laboratory Control							
08/11/95	LCS954935	CHGC7A50810120001	NA	250	226	ug/kg	90.0
08/11/95	LCSD954935	CHGC7A50810120001	NA	250	232	ug/kg	93.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	8-127

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : alpha-BHC							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	22.4	ug/kg	90.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	22.3	ug/kg	89.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 37-134				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : alpha-Chlordane							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	25.3	ug/kg	101
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	25.2	ug/kg	101
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria NS				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : delta-BHC							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	22.2	ug/kg	89.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	22.0	ug/kg	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 88.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 19-140				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : gamma-BHC							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	25.1	ug/kg	101
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	24.8	ug/kg	99.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	32-127

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : gamma-BHC							
Type of Spike : Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.780	20.4	18.0	ug/kg	85.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	0.780	20.5	18.6	ug/kg	87.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 86.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	32-127

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : gamma-Chlordane							
Type of Spike : Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	25.0	23.9	ug/kg	96.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	25.0	23.7	ug/kg	95.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 95.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	100	98.4	ug/kg	98.0
08/11/95	LCS954935	CHGC7A50810120001	NA	100	82.8	ug/kg	83.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	100	96.3	ug/kg	96.0
08/11/95	LCSD954935	CHGC7A50810120001	NA	100	83.3	ug/kg	83.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : 8.12			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	102	95.5	ug/kg	94.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	103	98.7	ug/kg	96.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 95.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Method Blank							
08/11/95	BLK953202	CHGC7A50810120001	NA	100	98.0	ug/kg	98.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 98.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Normal Sample							
08/11/95	G95-13-SS-01	CHGC7A50810120001	NA	104	112	ug/kg	107
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	102	96.6	ug/kg	94.0
08/11/95	G95-13-SS-03	CHGC7A50810120001	NA	113	106	ug/kg	94.0
08/11/95	G95-13-SS-04	CHGC7A50810120001	NA	103	95.4	ug/kg	92.0
08/11/95	G95-13-SS-05	CHGC7A50810120001	NA	104	100	ug/kg	97.0
08/11/95	G95-13-SS-06	CHGC7A50810120001	NA	117	124	ug/kg	106

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 98.3	Above acceptance :	0
Standard Deviation	: 6.53	Acceptance Criteria	20-150

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Laboratory Control							
08/11/95	LCS954934	CHGC7A50810120001	NA	100	94.1	ug/kg	9
08/11/95	LCS954935	CHGC7A50810120001	NA	100	85.2	ug/kg	85.0
08/11/95	LCSD954934	CHGC7A50810120001	NA	100	93.7	ug/kg	94.0
08/11/95	LCSD954935	CHGC7A50810120001	NA	100	86.6	ug/kg	87.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 90.0	Above acceptance :	0
Standard Deviation	: 4.69	Acceptance Criteria	20-150

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Matrix Spike							
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	103	97.6	ug/kg	95.0
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	102	93.9	ug/kg	92.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 93.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	20-150

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Method Blank							
08/11/95	BLK953202	CHGC7A50810120001	NA	100	93.4	ug/kg	93.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 93.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Normal Sample							
08/11/95	G95-13-SS-01	CHGC7A50810120001	NA	104	110	ug/kg	106
08/11/95	G95-13-SS-02	CHGC7A50810120001	NA	102	95.0	ug/kg	93.0
08/11/95	G95-13-SS-03	CHGC7A50810120001	NA	113	110	ug/kg	97.0
08/11/95	G95-13-SS-04	CHGC7A50810120001	NA	103	93.3	ug/kg	90.0
08/11/95	G95-13-SS-05	CHGC7A50810120001	NA	104	126	ug/kg	122
08/11/95	G95-13-SS-06	CHGC7A50810120001	NA	117	116	ug/kg	100
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 11.6			Acceptance Criteria 20-150				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1,1-Trichloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	22.1	ug/kg	111
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	21.2	ug/kg	106
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	22.8	ug/kg	114
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	22.4	ug/kg	112
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 111			Above acceptance : 0				
Standard Deviation : 3.40			Acceptance Criteria 52-162				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1,2,2-Tetrachloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.2	ug/kg	101
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	20.1	ug/kg	101
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.6	ug/kg	103
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	22.2	ug/kg	111

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 4.76	Acceptance Criteria	46-157

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1,2-Trichloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	19.0	ug/kg	95.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	18.7	ug/kg	93.5
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.1	ug/kg	[redacted]
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.2	ug/kg	101

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 97.5	Above acceptance :	0
Standard Deviation	: 4.12	Acceptance Criteria	52-150

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1-Dichloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	21.0	ug/kg	105
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	20.4	ug/kg	102
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.5	ug/kg	107
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.6	ug/kg	108

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 106	Above acceptance :	0
Standard Deviation	: 2.65	Acceptance Criteria	59-155

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1-Dichloroethene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.4	ug/kg	102
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.8	ug/kg	99.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.7	ug/kg	109
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.9	ug/kg	105
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 104			Above acceptance : 0				
Standard Deviation : 4.27			Acceptance Criteria D-234				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1-Dichloroethene							
Type of Spike : Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	52.4	56.2	ug/kg	107
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	51.9	54.5	ug/kg	105
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	4780	ug/kg	76.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	4530	ug/kg	72.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.2	60.9	ug/kg	96.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.8	59.8	ug/kg	94.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 91.7			Above acceptance : 0				
Standard Deviation : 14.6			Acceptance Criteria D-234				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	23.3	ug/kg	117
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	22.3	ug/kg	111
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	23.5	ug/kg	118
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	23.4	ug/kg	117
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 116			Above acceptance : 0				
Standard Deviation : 3.20			Acceptance Criteria 49-155				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloropropane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.3	ug/kg	102
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.6	ug/kg	98.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.0	ug/kg	100
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.6	ug/kg	103

Number of Samples : 4 — Below acceptance : 0
Mean % Recovery : 101 — Above acceptance : 0
Standard Deviation : 2.22 — Acceptance Criteria D-210

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 2-Chloroethyl vinyl ether							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	19.1	ug/kg	95.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	18.7	ug/kg	93.[illegible]
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	18.9	ug/kg	9[illegible]
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.7	ug/kg	99.0

Number of Samples : 4 — Below acceptance : 0
Mean % Recovery : 95.5 — Above acceptance : 0
Standard Deviation : 2.52 — Acceptance Criteria NS

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 2-Hexanone							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	100	96.9	ug/kg	97.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	100	101	ug/kg	101
08/15/95	LCS955494	MSMSDA50815131101	NA	100	117	ug/kg	117
08/15/95	LCSD955495	MSMSDA50815131101	NA	100	126	ug/kg	126

Number of Samples : 4 — Below acceptance : 0
Mean % Recovery : 110 — Above acceptance : 0
Standard Deviation : 13.6 — Acceptance Criteria NS

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 4-Methyl-2-Pentanone(MIBK)							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	100	104	ug/kg	104
08/07/95	LCSD954421	MSMSDA50807130701	NA	100	107	ug/kg	107
08/15/95	LCS955494	MSMSDA50815131101	NA	100	103	ug/kg	103
08/15/95	LCSD955495	MSMSDA50815131101	NA	100	110	ug/kg	110
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 3.16			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Acetone							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	100	136	ug/kg	136
08/07/95	LCSD954421	MSMSDA50807130701	NA	100	137	ug/kg	137
08/15/95	LCS955494	MSMSDA50815131101	NA	100	224	ug/kg	224
08/15/95	LCSD955495	MSMSDA50815131101	NA	100	235	ug/kg	235
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 183			Above acceptance : 0				
Standard Deviation : 53.9			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Benzene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.9	ug/kg	105
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	20.5	ug/kg	102
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.6	ug/kg	108
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.6	ug/kg	108
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 2.87			Acceptance Criteria 37-151				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Benzene							
Type of Spike : Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	51.9	54.5	ug/kg	105
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	52.4	53.7	ug/kg	102
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	318	6260	5120	ug/kg	77.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	318	6260	4870	ug/kg	73.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.8	65.3	ug/kg	102
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.2	66.7	ug/kg	106
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 94.2			Above acceptance : 0				
Standard Deviation : 15.0			Acceptance Criteria 37-151				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Bromodichloromethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.6	ug/kg	
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.7	ug/kg	98.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.9	ug/kg	109
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.9	ug/kg	109
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 5.32			Acceptance Criteria 35-155				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Bromomethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.4	ug/kg	102
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	18.7	ug/kg	93.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.3	ug/kg	101
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.7	ug/kg	99.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 98.8			Above acceptance : 0				
Standard Deviation : 4.03			Acceptance Criteria D-242				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Carbon disulfide							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	22.5	ug/kg	112
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	21.7	ug/kg	109
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	23.5	ug/kg	117
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	22.9	ug/kg	114
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 113			Above acceptance : 0				
Standard Deviation : 3.37			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Carbon tetrachloride							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	17.6	ug/kg	88.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	17.0	ug/kg	85.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.2	ug/kg	96.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	18.7	ug/kg	94.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 90.8			Above acceptance : 0				
Standard Deviation : 5.12			Acceptance Criteria 70-140				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chlorobenzene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	18.8	ug/kg	94.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	18.5	ug/kg	92.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.9	ug/kg	100
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.0	ug/kg	100
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : 4.12			Acceptance Criteria 37-160				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chlorobenzene							
Type of Spike : Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	52.4	51.5	ug/kg	98.0
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	51.9	50.2	ug/kg	97.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	5120	ug/kg	82.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	4820	ug/kg	77.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.2	66.1	ug/kg	105
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.8	66.5	ug/kg	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 93.8			Above acceptance : 0				
Standard Deviation : 11.7			Acceptance Criteria 37-160				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloroethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.2	ug/kg	
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.2	ug/kg	96.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	18.7	ug/kg	93.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.2	ug/kg	96.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : 3.32			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloroform							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.7	ug/kg	104
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.8	ug/kg	99.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.4	ug/kg	102
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.0	ug/kg	105
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 2.65			Acceptance Criteria 51-138				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloromethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	21.2	ug/kg	106
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	20.2	ug/kg	101
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.5	ug/kg	102
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.1	ug/kg	101
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 2.38			Acceptance Criteria D-273				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Dibromochloromethane							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	18.0	ug/kg	90.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	16.9	ug/kg	85.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.3	ug/kg	96.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.1	ug/kg	95.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : 5.07			Acceptance Criteria 53-149				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Ethyl benzene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.2	ug/kg	101
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.6	ug/kg	98.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.5	ug/kg	107
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.4	ug/kg	107
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 4.50			Acceptance Criteria 37-162				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Methyl ethyl ketone							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	100	109	ug/kg	109
08/07/95	LCSD954421	MSMSDA50807130701	NA	100	109	ug/kg	109
08/15/95	LCS955494	MSMSDA50815131101	NA	100	137	ug/kg	137
08/15/95	LCSD955495	MSMSDA50815131101	NA	100	142	ug/kg	142

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 124	Above acceptance :	0
Standard Deviation	: 17.7	Acceptance Criteria	NS

Method : SW8240 - Volatile Organics							
Spiked Analyte : Methylene chloride							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	17.4	ug/kg	87.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	16.3	ug/kg	81
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	17.3	ug/kg	8
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	16.8	ug/kg	84.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 84.8	Above acceptance :	0
Standard Deviation	: 2.87	Acceptance Criteria	D-221

Method : SW8240 - Volatile Organics							
Spiked Analyte : Styrene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.0	ug/kg	100
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.4	ug/kg	97.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	20.4	ug/kg	102
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.5	ug/kg	103

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 2.65	Acceptance Criteria	NS

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Tetrachloroethene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	16.9	ug/kg	85.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	16.4	ug/kg	82.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	18.6	ug/kg	93.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	18.9	ug/kg	94.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 88.5			Above acceptance : 0				
Standard Deviation : 5.92			Acceptance Criteria 64-148				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.6	ug/kg	103
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.8	ug/kg	99.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.9	ug/kg	109
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.5	ug/kg	107
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 4.43			Acceptance Criteria 47-150				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene							
Type of Spike : Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	52.4	50.0	ug/kg	95.0
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	51.9	49.6	ug/kg	96.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	3700	6260	8650	ug/kg	79.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	3700	6260	8550	ug/kg	78.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.8	66.5	ug/kg	104
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.2	66.6	ug/kg	105
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 92.8			Above acceptance : 0				
Standard Deviation : 11.8			Acceptance Criteria 47-150				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Tribromomethane(Bromoform)							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	16.9	ug/kg	85.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	16.8	ug/kg	84.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	18.7	ug/kg	93.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.2	ug/kg	96.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 89.5	Above acceptance :	0
Standard Deviation	: 5.92	Acceptance Criteria	45-169

Method : SW8240 - Volatile Organics							
Spiked Analyte : Trichloroethene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	18.4	ug/kg	92.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	17.9	ug/kg	89
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.5	ug/kg	9
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.4	ug/kg	97.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: 4.24	Acceptance Criteria	71-157

Method : SW8240 - Volatile Organics							
Spiked Analyte : Trichloroethene							
Type of Spike : Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	51.9	46.9	ug/kg	90.0
08/07/95	G95-13-SS-01	MSMSDA50807130701	ND	52.4	48.6	ug/kg	93.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	4270	ug/kg	68.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	ND	6260	4390	ug/kg	70.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.2	64.8	ug/kg	103
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	ND	63.8	65.0	ug/kg	102

Number of Samples	: 6	Below acceptance :	2
Mean % Recovery	: 87.7	Above acceptance :	0
Standard Deviation	: 15.3	Acceptance Criteria	71-157

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Vinyl acetate							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	23.0	ug/kg	115
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	22.2	ug/kg	111
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.2	ug/kg	96.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.3	ug/kg	101
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 8.77			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Vinyl chloride							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.9	ug/kg	105
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.4	ug/kg	97.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.9	ug/kg	99.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	20.3	ug/kg	101
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 3.42			Acceptance Criteria D-251				
Method : SW8240 - Volatile Organics							
Spiked Analyte : cis-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	19.1	ug/kg	96.0
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	18.6	ug/kg	93.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	19.8	ug/kg	99.0
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	19.9	ug/kg	100
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 97.0			Above acceptance : 0				
Standard Deviation : 3.16			Acceptance Criteria D-227				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : m&p-Xylenes							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	40.0	42.1	ug/kg	105
08/07/95	LCSD954421	MSMSDA50807130701	NA	40.0	40.2	ug/kg	101
08/15/95	LCS955494	MSMSDA50815131101	NA	40.0	43.5	ug/kg	109
08/15/95	LCSD955495	MSMSDA50815131101	NA	40.0	43.1	ug/kg	108
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 3.59			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : o-Xylene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	20.6	ug/kg	103
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	20.6	ug/kg	103
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.5	ug/kg	108
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.3	ug/kg	107
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 2.63			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : trans-1,2-Dichloroethene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	22.1	ug/kg	110
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	21.0	ug/kg	105
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	23.2	ug/kg	116
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	22.7	ug/kg	113
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 111			Above acceptance : 0				
Standard Deviation : 4.69			Acceptance Criteria 54-156				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : trans-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	20.0	19.9	ug/kg	100
08/07/95	LCSD954421	MSMSDA50807130701	NA	20.0	19.0	ug/kg	95.0
08/15/95	LCS955494	MSMSDA50815131101	NA	20.0	21.6	ug/kg	108
08/15/95	LCSD955495	MSMSDA50815131101	NA	20.0	21.4	ug/kg	107

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 6.14	Acceptance Criteria	17-183

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Equipment Blank							
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	NA	50.0	59.5	ug/kg	119
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	NA	50.0	59.3	ug/kg	119

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 119	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	70-121

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	50.0	58.2	ug/kg	116
08/07/95	LCSD954421	MSMSDA50807130701	NA	50.0	58.4	ug/kg	117
08/15/95	LCS955494	MSMSDA50815131101	NA	50.0	55.6	ug/kg	111
08/15/95	LCSD955495	MSMSDA50815131101	NA	50.0	55.0	ug/kg	110

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 114	Above acceptance :	0
Standard Deviation	: 3.51	Acceptance Criteria	70-121

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics Spiked Analyte : 1,2-Dichloroethane-d4 Type of Spike : Surrogate - Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.9	60.8	ug/kg	117
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	52.4	60.5	ug/kg	116
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	4360	ug/kg	70.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	4770	ug/kg	76.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.8	73.5	ug/kg	115
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.2	73.5	ug/kg	116
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 22.3			Acceptance Criteria 70-121				
Method : SW8240 - Volatile Organics Spiked Analyte : 1,2-Dichloroethane-d4 Type of Spike : Surrogate - Method Blank							
08/07/95	BLK952833	MSMSDA50807130701	NA	50.0	57.4	ug/kg	
08/08/95	BLK952834	MSMSDA50808135001	NA	5000	4570	ug/kg	91.0
08/15/95	BLK953554	MSMSDA50815131101	NA	50.0	56.8	ug/kg	114
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : 13.6			Acceptance Criteria 70-121				
Method : SW8240 - Volatile Organics Spiked Analyte : 1,2-Dichloroethane-d4 Type of Spike : Surrogate - Normal Sample							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.8	58.8	ug/kg	113
08/07/95	G95-13-SS-02	MSMSDA50807130701	NA	51.0	59.7	ug/kg	117
08/07/95	G95-13-SS-03	MSMSDA50807130701	NA	56.0	62.9	ug/kg	112
08/07/95	G95-13-SS-04	MSMSDA50807130701	NA	51.1	59.1	ug/kg	116
08/07/95	G95-13-SS-05	MSMSDA50807130701	NA	52.0	59.2	ug/kg	114
08/07/95	G95-SE-SB-01-02	MSMSDA50807130701	NA	295	346	ug/kg	117

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloroethane-d4							
Type of Spike : Surrogate - Normal Sample, cont.							
08/07/95	G95-SE-SB-02-02	MSMSDA50807130701	NA	53.3	61.8	ug/kg	116
08/07/95	G95-SE-SB-03-02	MSMSDA50807130701	NA	122	145	ug/kg	118
08/08/95	G95-13-SS-06	MSMSDA50807130701	NA	58.0	68.1	ug/kg	117
08/08/95	G95-SE-SB-01-01	MSMSDA50807130701	NA	54.5	61.7	ug/kg	113
08/08/95	G95-SE-SB-02-01	MSMSDA50807130701	NA	59.5	68.6	ug/kg	115
08/08/95	G95-SE-SB-03-01	MSMSDA50807130701	NA	60.6	72.4	ug/kg	119
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	64.1	70.1	ug/kg	109
08/15/95	G95-SE-MW-03-02	MSMSDA50815131101	NA	51.5	60.3	ug/kg	117
08/15/95	G95-SE-MW-04-02	MSMSDA50815131101	NA	53.6	63.7	ug/kg	119
08/15/95	G95-SE-SS-01	MSMSDA50815131101	NA	67.9	79.0	ug/kg	116
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 116			Above acceptance : 0				
Standard Deviation : 2.71			Acceptance Criteria 70-121				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Equipment Blank							
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	NA	50.0	46.6	ug/kg	93.0
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	NA	50.0	45.1	ug/kg	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 74-121				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	50.0	50.1	ug/kg	100
08/07/95	LCSD954421	MSMSDA50807130701	NA	50.0	49.8	ug/kg	100
08/15/95	LCS955494	MSMSDA50815131101	NA	50.0	48.7	ug/kg	97.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Laboratory Control, cont.							
08/15/95	LCSD955495	MSMSDA50815131101	NA	50.0	48.7	ug/kg	97.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : 1.73			Acceptance Criteria 74-121				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	52.4	44.3	ug/kg	84.0
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.9	43.4	ug/kg	84.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	5040	ug/kg	81.0
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	5130	ug/kg	82.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.2	57.2	ug/kg	90.[illegible]
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.8	58.5	ug/kg	9[illegible]
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 85.5			Above acceptance : 0				
Standard Deviation : 4.46			Acceptance Criteria 74-121				
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Method Blank							
08/07/95	BLK952833	MSMSDA50807130701	NA	50.0	46.7	ug/kg	93.0
08/08/95	BLK952834	MSMSDA50808135001	NA	5000	4380	ug/kg	88.0
08/15/95	BLK953554	MSMSDA50815131101	NA	50.0	46.3	ug/kg	92.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 91.0			Above acceptance : 0				
Standard Deviation : 2.65			Acceptance Criteria 74-121				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,4-Bromofluorobenzene							
Type of Spike : Surrogate - Normal Sample							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.8	45.7	ug/kg	88.0
08/07/95	G95-13-SS-02	MSMSDA50807130701	NA	51.0	43.7	ug/kg	86.0
08/07/95	G95-13-SS-03	MSMSDA50807130701	NA	56.0	42.3	ug/kg	75.0
08/07/95	G95-13-SS-04	MSMSDA50807130701	NA	51.1	44.5	ug/kg	87.0
08/07/95	G95-13-SS-05	MSMSDA50807130701	NA	52.0	38.0	ug/kg	73.0
08/07/95	G95-SE-SB-01-02	MSMSDA50807130701	NA	295	378	ug/kg	128
08/07/95	G95-SE-SB-02-02	MSMSDA50807130701	NA	53.3	49.0	ug/kg	92.0
08/07/95	G95-SE-SB-03-02	MSMSDA50807130701	NA	122	125	ug/kg	102
08/08/95	G95-13-SS-06	MSMSDA50807130701	NA	58.0	46.8	ug/kg	81.0
08/08/95	G95-SE-SB-01-01	MSMSDA50807130701	NA	54.5	39.2	ug/kg	72.0
08/08/95	G95-SE-SB-02-01	MSMSDA50807130701	NA	59.5	44.7	ug/kg	75.0
08/08/95	G95-SE-SB-03-01	MSMSDA50807130701	NA	60.6	47.1 (X)	ug/kg	78.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	64.1	60.1	ug/kg	94.0
08/15/95	G95-SE-MW-03-02	MSMSDA50815131101	NA	51.5	44.8	ug/kg	87.0
08/15/95	G95-SE-MW-04-02	MSMSDA50815131101	NA	53.6	47.6	ug/kg	89.0
08/15/95	G95-SE-SS-01	MSMSDA50815131101	NA	67.9	51.4	ug/kg	76.0
Number of Samples : 16			Below acceptance : 2				
Mean % Recovery : 86.4			Above acceptance : 1				
Standard Deviation : 14.0			Acceptance Criteria 74-121				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Equipment Blank							
08/08/95	G95-13-SS-04-EB	MSMSDA50807130701	NA	50.0	50.0	ug/kg	100
08/15/95	G95-SE-MW-04-02-EB	MSMSDA50815131101	NA	50.0	49.7	ug/kg	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-117				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Laboratory Control							
08/07/95	LCS954420	MSMSDA50807130701	NA	50.0	49.8	ug/kg	100
08/07/95	LCSD954421	MSMSDA50807130701	NA	50.0	50.6	ug/kg	101
08/15/95	LCS955494	MSMSDA50815131101	NA	50.0	49.7	ug/kg	100
08/15/95	LCSD955495	MSMSDA50815131101	NA	50.0	49.6	ug/kg	99.0

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: 0.816	Acceptance Criteria	81-117

Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Matrix Spike							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	52.4	50.2	ug/kg	96.0
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.9	50.2	ug/kg	97
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	4380	ug/kg	7
08/08/95	G95-SE-SB-01-02	MSMSDA50808135001	NA	6260	4570	ug/kg	73.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.2	63.0	ug/kg	100
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	63.8	63.6	ug/kg	100

Number of Samples	: 6	Below acceptance :	2
Mean % Recovery	: 89.3	Above acceptance :	0
Standard Deviation	: 13.9	Acceptance Criteria	81-117

Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Method Blank							
08/07/95	BLK952833	MSMSDA50807130701	NA	50.0	50.0	ug/kg	100
08/08/95	BLK952834	MSMSDA50808135001	NA	5000	4590	ug/kg	92.0
08/15/95	BLK953554	MSMSDA50815131101	NA	50.0	49.7	ug/kg	100

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 97.3	Above acceptance :	0
Standard Deviation	: 4.62	Acceptance Criteria	81-117

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene-d8							
Type of Spike : Surrogate - Normal Sample							
08/07/95	G95-13-SS-01	MSMSDA50807130701	NA	51.8	50.5	ug/kg	97.0
08/07/95	G95-13-SS-02	MSMSDA50807130701	NA	51.0	50.3	ug/kg	98.0
08/07/95	G95-13-SS-03	MSMSDA50807130701	NA	56.0	54.0	ug/kg	96.0
08/07/95	G95-13-SS-04	MSMSDA50807130701	NA	51.1	48.2	ug/kg	94.0
08/07/95	G95-13-SS-05	MSMSDA50807130701	NA	52.0	40.0	ug/kg	77.0
08/07/95	G95-SE-SB-01-02	MSMSDA50807130701	NA	295	299	ug/kg	101
08/07/95	G95-SE-SB-02-02	MSMSDA50807130701	NA	53.3	52.4	ug/kg	98.0
08/07/95	G95-SE-SB-03-02	MSMSDA50807130701	NA	122	121	ug/kg	99.0
08/08/95	G95-13-SS-06	MSMSDA50807130701	NA	58.0	53.2	ug/kg	92.0
08/08/95	G95-SE-SB-01-01	MSMSDA50807130701	NA	54.5	48.4	ug/kg	89.0
08/08/95	G95-SE-SB-02-01	MSMSDA50807130701	NA	59.5	54.7	ug/kg	92.0
08/08/95	G95-SE-SB-03-01	MSMSDA50807130701	NA	60.6	55.3	ug/kg	91.0
08/15/95	G95-SE-MW-02-02	MSMSDA50815131101	NA	64.1	65.4	ug/kg	102
08/15/95	G95-SE-MW-03-02	MSMSDA50815131101	NA	51.5	50.8	ug/kg	99.0
08/15/95	G95-SE-MW-04-02	MSMSDA50815131101	NA	53.6	53.2	ug/kg	99.0
08/15/95	G95-SE-SS-01	MSMSDA50815131101	NA	67.9	63.6	ug/kg	94.0
Number of Samples : 16			Below acceptance : 1				
Mean % Recovery : 94.9			Above acceptance : 0				
Standard Deviation : 6.06			Acceptance Criteria 81-117				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2,4-Trichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.91	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.43	mg/kg	103
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.69	mg/kg	111
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.92	mg/kg	88.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.74	mg/kg	82.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.30	mg/kg	99.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 95.0			Above acceptance : 0				
Standard Deviation : 11.1			Acceptance Criteria 44-142				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2,4-Trichlorobenzene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.45	mg/kg	104
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.14	mg/kg	96.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	3.45	3.37	mg/kg	98.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 99.3			Above acceptance : 0				
Standard Deviation : 4.16			Acceptance Criteria 44-142				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.83	mg/kg	85.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.41	mg/kg	102
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.57	mg/kg	[illegible]
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.79	mg/kg	[illegible]
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.63	mg/kg	79.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.16	mg/kg	95.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 92.0			Above acceptance : 0				
Standard Deviation : 11.1			Acceptance Criteria 32-129				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,3-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.74	mg/kg	82.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.34	mg/kg	100
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.53	mg/kg	106
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.77	mg/kg	83.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.58	mg/kg	78.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.14	mg/kg	94.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 90.5			Above acceptance : 0				
Standard Deviation : 11.2			Acceptance Criteria D-172				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,4-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.70	mg/kg	81.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.37	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.60	mg/kg	108
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.79	mg/kg	84.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.60	mg/kg	78.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.12	mg/kg	94.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 91.0			Above acceptance : 0				
Standard Deviation : 12.0			Acceptance Criteria 20-124				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,4-Dichlorobenzene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	3.91	mg/kg	91.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.23	mg/kg	99.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	3.45	3.21	mg/kg	93.0
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 94.3			Above acceptance : 0				
Standard Deviation : 4.16			Acceptance Criteria 20-124				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,5-Trichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.85	mg/kg	86.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.83	mg/kg	115
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.12	mg/kg	124
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.96	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.80	mg/kg	84.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.36	mg/kg	101
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 99.8			Above acceptance : 1				
Standard Deviation : 16.6			Acceptance Criteria 61-116				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Trichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.88	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.58	mg/kg	107
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.93	mg/kg	118
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.95	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.71	mg/kg	81.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.28	mg/kg	98.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 96.7			Above acceptance : 0				
Standard Deviation : 13.9			Acceptance Criteria 37-144				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dichlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.75	mg/kg	8[illegible]
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.67	mg/kg	110
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.66	mg/kg	110
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.82	mg/kg	85.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.61	mg/kg	78.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.25	mg/kg	98.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 93.8			Above acceptance : 0				
Standard Deviation : 14.2			Acceptance Criteria 39-135				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dimethylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	1.59	mg/kg	48.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	2.63	mg/kg	79.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	2.67	mg/kg	80.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dimethylphenol							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	1.74	mg/kg	52.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	1.75	mg/kg	53.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.23	mg/kg	67.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 63.2	Above acceptance :	0
Standard Deviation	: 14.2	Acceptance Criteria	D-116

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.52	mg/kg	106
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	4.71	mg/kg	141
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	5.24	mg/kg	157
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.62	mg/kg	79.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.61	mg/kg	78.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.30	mg/kg	99.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: 32.5	Acceptance Criteria	D-191

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrotoluene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.29	mg/kg	99.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.97	mg/kg	119
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.45	mg/kg	134
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.16	mg/kg	95.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.11	mg/kg	93.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.59	mg/kg	108

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 108	Above acceptance :	0
Standard Deviation	: 15.9	Acceptance Criteria	39-139

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrotoluene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.47	mg/kg	104
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.72	mg/kg	110
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	3.45	3.47	mg/kg	100

Number of Samples	: 3	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: 5.03	Acceptance Criteria	39-139

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,6-Dinitrotoluene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.18	mg/kg	95.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.59	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.12	mg/kg	12[illegible]
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.15	mg/kg	9[illegible]
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.53	mg/kg	106

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 11.7	Acceptance Criteria	50-158

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chloronaphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.86	mg/kg	86.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.36	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.70	mg/kg	111
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.88	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.38	mg/kg	101

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 96.2	Above acceptance :	0
Standard Deviation	: 9.91	Acceptance Criteria	60-118

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.62	mg/kg	79.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.48	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.55	mg/kg	107
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.71	mg/kg	81.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.49	mg/kg	75.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.11	mg/kg	93.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : 13.8			Acceptance Criteria 23-134				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chlorophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.58	7.35	mg/kg	86.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.57	8.42	mg/kg	98.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.97	6.23	mg/kg	89.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.90	6.45	mg/kg	93.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : 5.20			Acceptance Criteria 23-134				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylnaphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.97	mg/kg	89.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.54	mg/kg	106
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.64	mg/kg	109
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.91	mg/kg	87.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylnaphthalene							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.41	mg/kg	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : 9.35			Acceptance Criteria 30-168				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.52	mg/kg	76.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.29	mg/kg	99.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.48	mg/kg	105
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.62	mg/kg	78.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.45	mg/kg	74.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.06	mg/kg	92
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 87.3			Above acceptance : 0				
Standard Deviation : 13.1			Acceptance Criteria 33-132				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.12	mg/kg	94.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.69	mg/kg	111
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.16	mg/kg	125
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.05	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.11	mg/kg	63.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.48	mg/kg	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.2			Above acceptance : 0				
Standard Deviation : 21.0			Acceptance Criteria 28-167				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.96	mg/kg	89.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.81	mg/kg	114
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.05	mg/kg	121
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.91	mg/kg	87.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.67	mg/kg	80.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.38	mg/kg	101
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.7			Above acceptance : 0				
Standard Deviation : 16.2			Acceptance Criteria 29-182				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3,3'-Dichlorobenzidine							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.66	mg/kg	80.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.31	mg/kg	99.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.55	mg/kg	107
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.74	mg/kg	82.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.58	mg/kg	77.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 89.2			Above acceptance : 0				
Standard Deviation : 11.8			Acceptance Criteria D-262				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.96	mg/kg	89.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.60	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.01	mg/kg	120

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3-Nitroaniline							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.96	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.87	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.33	mg/kg	100

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 98.7	Above acceptance :	0
Standard Deviation	: 13.4	Acceptance Criteria	60-152

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4,6-Dinitro-2-methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	4.09	mg/kg	123
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	5.25	mg/kg	158
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	5.44	mg/kg	16[illegible]
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.05	mg/kg	9[illegible]
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.05	mg/kg	91.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.67	mg/kg	110

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 123	Above acceptance :	0
Standard Deviation	: 31.6	Acceptance Criteria	D-181

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Bromophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.09	mg/kg	93.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.52	mg/kg	106
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.87	mg/kg	116
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.13	mg/kg	94.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.43	mg/kg	103

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 9.46	Acceptance Criteria	53-127

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chloro-3-methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.67	mg/kg	80.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.40	mg/kg	102
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.59	mg/kg	108
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.84	mg/kg	85.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.67	mg/kg	80.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.26	mg/kg	98.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 92.2			Above acceptance : 0				
Standard Deviation : 12.1			Acceptance Criteria 22-147				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chloro-3-methylphenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.58	7.63	mg/kg	89.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.57	8.25	mg/kg	96.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.90	6.53	mg/kg	95.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.97	6.50	mg/kg	93.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 93.3			Above acceptance : 0				
Standard Deviation : 3.10			Acceptance Criteria 22-147				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chlorophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.15	mg/kg	94.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.62	mg/kg	109
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.07	mg/kg	122
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.12	mg/kg	94.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chlorophenyl phenyl ether							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.45	mg/kg	103
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 12.0			Acceptance Criteria 25-158				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Methylphenol/3-Methylphenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.40	mg/kg	72.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.29	mg/kg	99.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.32	mg/kg	100
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.38	mg/kg	71.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.31	mg/kg	69.[illegible]
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.83	mg/kg	8[illegible]
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 82.7			Above acceptance : 0				
Standard Deviation : 14.2			Acceptance Criteria 25-135				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.58	mg/kg	77.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.16	mg/kg	95.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.60	mg/kg	108
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.59	mg/kg	78.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.49	mg/kg	75.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.98	mg/kg	89.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 87.0			Above acceptance : 0				
Standard Deviation : 12.9			Acceptance Criteria 42-155				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitrophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.45	mg/kg	73.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.08	mg/kg	92.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.48	mg/kg	104
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.50	mg/kg	75.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.43	mg/kg	73.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 84.5			Above acceptance : 0				
Standard Deviation : 12.8			Acceptance Criteria D-132				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitrophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.58	6.69	mg/kg	78.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.57	7.24	mg/kg	84.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.90	5.83	mg/kg	84.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.97	5.56	mg/kg	80.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 81.5			Above acceptance : 0				
Standard Deviation : 3.00			Acceptance Criteria D-132				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.05	mg/kg	92.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.51	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.77	mg/kg	113
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.90	mg/kg	87.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.37	mg/kg	101
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.3			Above acceptance : 0				
Standard Deviation : 9.75			Acceptance Criteria 47-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.10	mg/kg	96.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.36	mg/kg	102
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	3.45	3.50	mg/kg	102
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : 3.46			Acceptance Criteria 47-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthylene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.89	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.51	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.84	mg/kg	115
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.85	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.34	mg/kg	100
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 97.2			Above acceptance : 0				
Standard Deviation : 11.5			Acceptance Criteria 33-145				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.92	mg/kg	88.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.53	mg/kg	106
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.66	mg/kg	110
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.96	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.96	mg/kg	89.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.40	mg/kg	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 97.3			Above acceptance : 0				
Standard Deviation : 9.83			Acceptance Criteria 27-133				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.14	mg/kg	94.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.78	mg/kg	113
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.87	mg/kg	116
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.04	mg/kg	91.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.46	mg/kg	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 11.4			Acceptance Criteria 33-143				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.33	mg/kg	100
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.44	mg/kg	103
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.77	mg/kg	113

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)pyrene							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.22	mg/kg	97.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.88	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.30	mg/kg	99.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 99.7	Above acceptance :	0
Standard Deviation	: 8.76	Acceptance Criteria	17-163

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(b)fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.28	mg/kg	98.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.32	mg/kg	100
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.11	mg/kg	93
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.99	mg/kg	9
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.64	mg/kg	79.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.23	mg/kg	97.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 92.8	Above acceptance :	0
Standard Deviation	: 7.68	Acceptance Criteria	24-159

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(g,h,i)perylene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.25	mg/kg	97.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.59	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.93	mg/kg	118
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.34	mg/kg	100
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.08	mg/kg	92.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.49	mg/kg	105

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 9.16	Acceptance Criteria	D-219

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(k)fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.21	mg/kg	96.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.17	mg/kg	95.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.84	mg/kg	115
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.08	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.89	mg/kg	87.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.10	mg/kg	93.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 96.3			Above acceptance : 0				
Standard Deviation : 9.67			Acceptance Criteria 11-162				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzoic acid							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	1.12	mg/kg	34.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.12	mg/kg	93.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.65	mg/kg	109
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	0.853	mg/kg	26.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.04	mg/kg	61.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.03	mg/kg	61.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 64.0			Above acceptance : 0				
Standard Deviation : 32.3			Acceptance Criteria 0-197				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzyl alcohol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.74	mg/kg	82.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.35	mg/kg	100
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.47	mg/kg	104

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzyl alcohol							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.84	mg/kg	85.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.68	mg/kg	80.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.26	mg/kg	98.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 91.5	Above acceptance :	0
Standard Deviation	: 10.3	Acceptance Criteria	NS

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Butylbenzylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.09	mg/kg	93.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.46	mg/kg	104
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.74	mg/kg	112
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.10	mg/kg	93.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.43	mg/kg	103

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 99.2	Above acceptance :	0
Standard Deviation	: 8.52	Acceptance Criteria	D-152

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Chrysene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.06	mg/kg	92.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.74	mg/kg	112
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.79	mg/kg	114
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.09	mg/kg	93.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.03	mg/kg	91.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.50	mg/kg	105

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 10.5	Acceptance Criteria	17-168

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-butylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.06	mg/kg	92.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.47	mg/kg	104
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.74	mg/kg	112
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.97	mg/kg	89.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.42	mg/kg	103
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.7			Above acceptance : 0				
Standard Deviation : 9.03			Acceptance Criteria 1-118				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-octylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.46	mg/kg	104
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.62	mg/kg	109
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.98	mg/kg	119
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.38	mg/kg	101
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.07	mg/kg	92.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.56	mg/kg	107
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : 8.96			Acceptance Criteria 4-146				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenz(a,h)anthracene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.24	mg/kg	97.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.58	mg/kg	107
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.93	mg/kg	118

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenz(a,h)anthracene							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.21	mg/kg	96.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.08	mg/kg	93.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.47	mg/kg	104

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 9.22	Acceptance Criteria	D-227

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenzofuran							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.95	mg/kg	89.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.39	mg/kg	102
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.75	mg/kg	113
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.04	mg/kg	91.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.87	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.35	mg/kg	100

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 96.8	Above acceptance :	0
Standard Deviation	: 10.1	Acceptance Criteria	67-126

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diethylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.93	mg/kg	88.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.42	mg/kg	103
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.78	mg/kg	113
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.03	mg/kg	91.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.93	mg/kg	88.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.35	mg/kg	100

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 97.2	Above acceptance :	0
Standard Deviation	: 9.99	Acceptance Criteria	67-143

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dimethylphthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.18	mg/kg	95.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.64	mg/kg	109
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.09	mg/kg	123
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.23	mg/kg	97.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.10	mg/kg	93.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.58	mg/kg	107
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 104			Above acceptance : 0				
Standard Deviation : 11.4			Acceptance Criteria 68-127				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diphenylamine (N-Nitrosodiphenylamine)							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.59	mg/kg	78.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.08	mg/kg	93.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.22	mg/kg	96.0
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.57	mg/kg	77.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.54	mg/kg	76.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.90	mg/kg	87.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 84.5			Above acceptance : 0				
Standard Deviation : 8.73			Acceptance Criteria NS				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluoranthene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.07	mg/kg	92.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.60	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.73	mg/kg	112

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluoranthene							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.07	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.04	mg/kg	91.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.48	mg/kg	104

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 99.8	Above acceptance :	0
Standard Deviation	: 9.30	Acceptance Criteria	26-137

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluorene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.95	mg/kg	88.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.48	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.79	mg/kg	114
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.01	mg/kg	90
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.93	mg/kg	88.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.37	mg/kg	101

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 97.7	Above acceptance :	0
Standard Deviation	: 10.7	Acceptance Criteria	59-121

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.95	mg/kg	89.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.59	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.77	mg/kg	113
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.05	mg/kg	91.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.46	mg/kg	104

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 99.5	Above acceptance :	0
Standard Deviation	: 10.1	Acceptance Criteria	D-152

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobutadiene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.88	mg/kg	86.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.51	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.49	mg/kg	105
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.98	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.72	mg/kg	82.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.32	mg/kg	99.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 94.3			Above acceptance : 0				
Standard Deviation : 9.99			Acceptance Criteria 40-137				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorocyclopentadiene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	0.354	mg/kg	11.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	2.44	mg/kg	73.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	0.282	mg/kg	8.40
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	0.682	mg/kg	20.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	1.04	mg/kg	31.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 38.9			Above acceptance : 0				
Standard Deviation : 34.4			Acceptance Criteria 0-249				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachloroethane							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.83	mg/kg	85.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.67	mg/kg	110
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.70	mg/kg	111

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachloroethane							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.79	mg/kg	84.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.66	mg/kg	80.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.17	mg/kg	95.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 94.2	Above acceptance :	0
Standard Deviation	: 13.6	Acceptance Criteria	53-143

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Indeno(1,2,3-cd)pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.25	mg/kg	97.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.60	mg/kg	108
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.87	mg/kg	116
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.34	mg/kg	[illegible]
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.08	mg/kg	92.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.51	mg/kg	105

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 8.53	Acceptance Criteria	D-171

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Isophorone							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.80	mg/kg	84.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.40	mg/kg	102
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.56	mg/kg	107
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.97	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.87	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.36	mg/kg	101

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 94.8	Above acceptance :	0
Standard Deviation	: 9.66	Acceptance Criteria	21-196

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : N-Nitroso-di-n-propylamine							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.92	mg/kg	88.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.37	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.62	mg/kg	109
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.86	mg/kg	86.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.34	mg/kg	100
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 95.7			Above acceptance : 0				
Standard Deviation : 9.05			Acceptance Criteria D-230				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : N-Nitroso-di-n-propylamine							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.62	mg/kg	108
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.24	mg/kg	99.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	3.45	3.83	mg/kg	111
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 6.24			Acceptance Criteria D-230				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Naphthalene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.79	mg/kg	84.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.38	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.52	mg/kg	106
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.98	mg/kg	89.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.78	mg/kg	83.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.33	mg/kg	100
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 93.8			Above acceptance : 0				
Standard Deviation : 9.75			Acceptance Criteria 21-133				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.90	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.57	mg/kg	107
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.69	mg/kg	111
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.99	mg/kg	90.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.78	mg/kg	83.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.42	mg/kg	103

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 96.8	Above acceptance :	0
Standard Deviation	: 11.6	Acceptance Criteria	35-180

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.06	mg/kg	9[illegible]
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	4.05	mg/kg	122
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.17	mg/kg	125
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.83	mg/kg	85.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.75	mg/kg	83.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.29	mg/kg	99.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 18.3	Acceptance Criteria	14-176

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.58	8.43	mg/kg	98.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.57	9.44	mg/kg	110
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.97	6.92	mg/kg	99.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Matrix Spike, cont.							
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.90	7.16	mg/kg	104
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 5.50			Acceptance Criteria 14-176				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenanthrene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.08	mg/kg	92.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.52	mg/kg	105
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.72	mg/kg	112
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.13	mg/kg	94.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.00	mg/kg	90.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.47	mg/kg	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : 8.76			Acceptance Criteria 54-120				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.47	mg/kg	74.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.33	mg/kg	100
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.42	mg/kg	103
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.57	mg/kg	77.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.40	mg/kg	72.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.01	mg/kg	90.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 86.0			Above acceptance : 0				
Standard Deviation : 13.6			Acceptance Criteria 5-112				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.57	7.32	mg/kg	85.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	8.58	6.53	mg/kg	76.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.90	5.70	mg/kg	83.0
08/09/95	G95-13-SS-01	MSMSD250809110001	ND	6.97	5.54	mg/kg	80.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 81.0			Above acceptance : 0				
Standard Deviation : 3.92			Acceptance Criteria 5-112				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pyrene							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.04	mg/kg	91.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.56	mg/kg	107
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.75	mg/kg	[illegible]
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.17	mg/kg	95.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.10	mg/kg	93.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.57	mg/kg	107
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 8.86			Acceptance Criteria 52-115				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pyrene							
Type of Spike : Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.27	mg/kg	100
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	ND	4.29	4.45	mg/kg	104
08/09/95	G95-13-SS-01	MSMSD250809110001	0.184	3.45	3.64	mg/kg	100
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 2.31			Acceptance Criteria 52-115				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethoxy)methane							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.82	mg/kg	85.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.41	mg/kg	102
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.56	mg/kg	107
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.04	mg/kg	91.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.92	mg/kg	88.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.41	mg/kg	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 95.8			Above acceptance : 0				
Standard Deviation : 8.98			Acceptance Criteria 33-184				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethyl)ether							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.76	mg/kg	83.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.38	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.46	mg/kg	104
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.90	mg/kg	87.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.75	mg/kg	82.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.38	mg/kg	101
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 93.0			Above acceptance : 0				
Standard Deviation : 10.1			Acceptance Criteria 12-158				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroisopropyl)ether							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.78	mg/kg	83.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.20	mg/kg	96.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.32	mg/kg	100

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroisopropyl)ether							
Type of Spike : Laboratory Control, cont.							
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.68	mg/kg	81.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.41	mg/kg	72.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.89	mg/kg	87.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 86.5	Above acceptance :	0
Standard Deviation	: 10.3	Acceptance Criteria	36-166

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Ethylhexyl)phthalate							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.19	mg/kg	96.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.80	mg/kg	114
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	4.33	mg/kg	1[illegible]
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.13	mg/kg	9[illegible]
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.09	mg/kg	93.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.54	mg/kg	106

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 106	Above acceptance :	0
Standard Deviation	: 14.5	Acceptance Criteria	8-158

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : p-Chloroaniline							
Type of Spike : Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.34	mg/kg	70.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.18	mg/kg	96.0
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.46	mg/kg	104
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.49	mg/kg	75.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.54	mg/kg	76.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.06	mg/kg	92.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 85.5	Above acceptance :	0
Standard Deviation	: 13.7	Acceptance Criteria	59-163

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	6.67	5.83	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	6.67	6.87	mg/kg	103
08/15/95	LCSD955560	MSMSD150815083701	NA	6.67	7.59	mg/kg	114
08/09/95	LCS953959	MSMSD250809110001	NA	6.67	5.99	mg/kg	90.0
08/09/95	LCS954966	MSMSD250809110001	NA	6.67	5.45	mg/kg	82.0
08/09/95	LCSD954966	MSMSD250809110001	NA	6.67	6.32	mg/kg	95.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 95.2			Above acceptance : 0				
Standard Deviation : 11.7			Acceptance Criteria 19-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.58	8.09	mg/kg	94.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	8.42	mg/kg	98.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.90	7.38	mg/kg	107
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	7.14	mg/kg	102
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : 5.56			Acceptance Criteria 19-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	6.67	6.48	mg/kg	97.0
08/09/95	BLK953230	MSMSD250809110001	NA	6.67	5.70	mg/kg	85.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 19-122				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	8.14	mg/kg	95.0
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	6.91	6.10	mg/kg	88.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	7.18	7.15	mg/kg	100
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	9.15	8.36	mg/kg	91.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	7.08	mg/kg	102
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	6.79	6.98	mg/kg	103
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	7.54	7.13	mg/kg	95.0
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	6.86	7.10	mg/kg	103
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	6.92	8.54	mg/kg	123
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	7.79	8.18	mg/kg	105
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	7.26	7.34	mg/kg	101
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	239	97.3	mg/kg	41.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	7.97	6.10	mg/kg	76.0
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	7.22	6.51	mg/kg	90.0
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	8.20	9.24	mg/kg	113
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	23.8	25.5	mg/kg	107
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 95.8			Above acceptance : 1				
Standard Deviation : 18.2			Acceptance Criteria 19-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.89	mg/kg	87.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.37	mg/kg	101
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.61	mg/kg	108
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.94	mg/kg	88.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.55	mg/kg	76.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.96	mg/kg	89.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : 11.3			Acceptance Criteria 54-115				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.21	mg/kg	98.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.00	mg/kg	93.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.45	3.42	mg/kg	99.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.34	mg/kg	96.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : 2.65			Acceptance Criteria 54-115				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	3.33	3.37	mg/kg	101
08/09/95	BLK953230	MSMSD250809110001	NA	3.33	2.74	mg/kg	82.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 54-115				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.28	4.12	mg/kg	96.0
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	3.45	3.10	mg/kg	90.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	3.59	3.60	mg/kg	100
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	4.58	4.24	mg/kg	92.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.39	mg/kg	97.0
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	3.40	3.33	mg/kg	98.0
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	3.77	3.28	mg/kg	87.0
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	3.43	3.32	mg/kg	97.0
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	3.46	3.94	mg/kg	114

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Normal Sample, cont.							
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	3.89	3.68	mg/kg	94.0
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	3.63	3.34	mg/kg	92.0
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	119	98.3	mg/kg	82.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	3.99	3.81	mg/kg	96.0
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	3.61	3.11	mg/kg	86.0
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	4.10	4.11	mg/kg	100
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	11.9	11.5	mg/kg	97.0

Number of Samples	: 16	Below acceptance :	0
Mean % Recovery	: 94.9	Above acceptance :	0
Standard Deviation	: 7.27	Acceptance Criteria	54-115

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	6.67	4.84	mg/kg	73.0
08/15/95	LCS955560	MSMSD150815083701	NA	6.67	6.04	mg/kg	91.0
08/15/95	LCSD955560	MSMSD150815083701	NA	6.67	6.15	mg/kg	92.0
08/09/95	LCS953959	MSMSD250809110001	NA	6.67	5.12	mg/kg	77.0
08/09/95	LCS954966	MSMSD250809110001	NA	6.67	4.40	mg/kg	66.0
08/09/95	LCSD954966	MSMSD250809110001	NA	6.67	5.21	mg/kg	78.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 79.5	Above acceptance :	0
Standard Deviation	: 10.2	Acceptance Criteria	46-119

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	7.98	mg/kg	93.0
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.58	7.11	mg/kg	83.0

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Matrix Spike, cont.							
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.90	6.26	mg/kg	91.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	6.19	mg/kg	89.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 89.0			Above acceptance : 0				
Standard Deviation : 4.32			Acceptance Criteria 46-119				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	6.67	5.71	mg/kg	86.0
08/09/95	BLK953230	MSMSD250809110001	NA	6.67	5.26	mg/kg	79.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 82.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 46-119				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	6.80	mg/kg	79.0
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	6.91	5.23	mg/kg	76.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	7.18	5.98	mg/kg	83.0
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	9.15	6.80	mg/kg	74.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	6.32	mg/kg	91.0
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	6.79	6.25	mg/kg	92.0
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	7.54	5.70	mg/kg	76.0
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	6.86	6.17	mg/kg	90.0
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	6.92	7.38	mg/kg	107
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	7.79	6.34	mg/kg	81.0
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	7.26	6.51	mg/kg	90.0

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Normal Sample, cont.							
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	239	186	mg/kg	78.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	7.97	6.78	mg/kg	85.0
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	7.22	5.82	mg/kg	81.0
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	8.20	7.52	mg/kg	92.0
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	23.8	23.2	mg/kg	98.0
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 85.8			Above acceptance : 0				
Standard Deviation : 9.06			Acceptance Criteria 46-119				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	2.79	mg/kg	84.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.36	mg/kg	[illegible]
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.43	mg/kg	103
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	2.88	mg/kg	86.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	2.48	mg/kg	74.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	2.97	mg/kg	89.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : 10.9			Acceptance Criteria 49-120				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.39	mg/kg	102
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.11	mg/kg	96.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.45	3.29	mg/kg	95.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.23	mg/kg	93.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 96.5			Above acceptance : 0				
Standard Deviation : 3.87			Acceptance Criteria 49-120				

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	3.33	3.27	mg/kg	98.0
08/09/95	BLK953230	MSMSD250809110001	NA	3.33	2.68	mg/kg	80.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 89.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	49-120

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.28	3.95	mg/kg	92.0
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	3.45	2.98	mg/kg	86.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	3.59	3.39	mg/kg	94.0
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	4.58	3.96	mg/kg	86.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.26	mg/kg	93.0
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	3.40	3.27	mg/kg	96.0
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	3.77	3.03	mg/kg	80.0
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	3.43	3.20	mg/kg	93.0
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	3.46	3.80	mg/kg	110
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	3.89	3.50	mg/kg	90.0
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	3.63	3.28	mg/kg	90.0
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	119	115	mg/kg	97.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	3.99	3.12	mg/kg	78.0
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	3.61	2.98	mg/kg	83.0
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	4.10	3.90	mg/kg	95.0
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	11.9	13.7	mg/kg	115

Number of Samples	: 16	Below acceptance :	0
Mean % Recovery	: 92.4	Above acceptance :	0
Standard Deviation	: 9.69	Acceptance Criteria	49-120

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	6.67	5.84	mg/kg	88.0
08/15/95	LCS955560	MSMSD150815083701	NA	6.67	7.04	mg/kg	106
08/15/95	LCSD955560	MSMSD150815083701	NA	6.67	7.32	mg/kg	110
08/09/95	LCS953959	MSMSD250809110001	NA	6.67	6.22	mg/kg	93.0
08/09/95	LCS954966	MSMSD250809110001	NA	6.67	5.46	mg/kg	82.0
08/09/95	LCSD954966	MSMSD250809110001	NA	6.67	6.49	mg/kg	97.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : 10.6			Acceptance Criteria 50-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.58	8.41	mg/kg	98
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	9.32	mg/kg	109
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.90	7.67	mg/kg	111
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	7.42	mg/kg	106
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 5.72			Acceptance Criteria 50-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	6.67	6.90	mg/kg	103
08/09/95	BLK953230	MSMSD250809110001	NA	6.67	6.13	mg/kg	92.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-122				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	8.57	8.49	mg/kg	99.0
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	6.91	6.47	mg/kg	94.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	7.18	7.15	mg/kg	100
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	9.15	8.60	mg/kg	94.0
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	6.97	7.39	mg/kg	106
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	6.79	7.30	mg/kg	107
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	7.54	6.84	mg/kg	91.0
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	6.86	7.25	mg/kg	106
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	6.92	8.44	mg/kg	122
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	7.79	7.88	mg/kg	101
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	7.26	7.69	mg/kg	106
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	239	185	mg/kg	78.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	7.97	7.92	mg/kg	99.0
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	7.22	6.81	mg/kg	94.0
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	8.20	9.03	mg/kg	110
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	23.8	26.8	mg/kg	113
Number of Samples : 16			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 10.2			Acceptance Criteria 50-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Laboratory Control							
08/15/95	LCS953959	MSMSD150815083701	NA	3.33	3.11	mg/kg	93.0
08/15/95	LCS955560	MSMSD150815083701	NA	3.33	3.75	mg/kg	113
08/15/95	LCSD955560	MSMSD150815083701	NA	3.33	3.98	mg/kg	120
08/09/95	LCS953959	MSMSD250809110001	NA	3.33	3.26	mg/kg	98.0
08/09/95	LCS954966	MSMSD250809110001	NA	3.33	3.04	mg/kg	91.0
08/09/95	LCSD954966	MSMSD250809110001	NA	3.33	3.56	mg/kg	107
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 104			Above acceptance : 0				
Standard Deviation : 11.6			Acceptance Criteria 53-133				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Matrix Spike							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.67	mg/kg	109
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.29	4.67	mg/kg	109
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.81	mg/kg	109
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.45	3.89	mg/kg	113

Number of Samples	: 4	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: 2.00	Acceptance Criteria	53-133

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Method Blank							
08/15/95	BLK953592	MSMSD150815083701	NA	3.33	3.72	mg/kg	111
08/09/95	BLK953230	MSMSD250809110001	NA	3.33	3.19	mg/kg	96

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	53-133

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Normal Sample							
08/15/95	G95-SE-MW-02-02	MSMSD150815083701	NA	4.28	4.84	mg/kg	113
08/15/95	G95-SE-MW-03-02	MSMSD150815083701	NA	3.45	3.40	mg/kg	98.0
08/15/95	G95-SE-MW-04-02	MSMSD150815083701	NA	3.59	3.92	mg/kg	109
08/15/95	G95-SE-SS-01	MSMSD150815083701	NA	4.58	4.79	mg/kg	105
08/09/95	G95-13-SS-01	MSMSD250809110001	NA	3.49	3.88	mg/kg	111
08/09/95	G95-13-SS-02	MSMSD250809110001	NA	3.40	3.79	mg/kg	112
08/09/95	G95-13-SS-03	MSMSD250809110001	NA	3.77	3.77	mg/kg	100
08/09/95	G95-13-SS-04	MSMSD250809110001	NA	3.43	3.79	mg/kg	110
08/09/95	G95-13-SS-05	MSMSD250809110001	NA	3.46	4.88	mg/kg	141

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TABLE D-8 DETAILED LISTING OF SOLID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Normal Sample, cont.							
08/09/95	G95-13-SS-06	MSMSD250809110001	NA	3.89	4.24	mg/kg	109
08/09/95	G95-SE-SB-01-01	MSMSD250809110001	NA	3.63	3.85	mg/kg	106
08/09/95	G95-SE-SB-01-02	MSMSD250809110001	NA	119	109	mg/kg	91.0
08/09/95	G95-SE-SB-02-01	MSMSD250809110001	NA	3.99	4.44	mg/kg	111
08/09/95	G95-SE-SB-02-02	MSMSD250809110001	NA	3.61	3.70	mg/kg	103
08/09/95	G95-SE-SB-03-01	MSMSD250809110001	NA	4.10	4.91	mg/kg	120
08/09/95	G95-SE-SB-03-02	MSMSD250809110001	NA	11.9	14.0	mg/kg	117

Number of Samples	: 16	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	1
Standard Deviation	: 11.0	Acceptance Criteria	53-133

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Equipment Blank							
08/03/95	G95-13-SS-04-EB	BH021.05NA	NA	100	102	ug/L	102
08/14/95	G95-SE-MW-04-02-EB	BH111.04NA	NA	100	97.0	ug/L	97.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 60-120				
Method : AK101 - Gasoline Range Organics							
Spiked Analyte : Trifluorotoluene							
Type of Spike : Surrogate - Method Blank							
08/02/95	Method Blank	BH021.05NA	NA	100	101	ug/L	101
08/11/95	Method Blank	BH111.04NA	NA	100	102	ug/L	102
08/12/95	Method Blank	BH111.04NA	NA	100	107	ug/L	107
Number of Samples : 3			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 3.21			Acceptance Criteria 60-120				
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Diesel							
Type of Spike : Laboratory Control							
08/02/95	LCS	BH011.21NA	NA	2000	1919	ug/L	96.0
08/02/95	LCSD	BH011.21NA	NA	2000	2155	ug/L	108
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 75-125				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Equipment Blank							
08/02/95	G95-13-SS-04-EB	BH011.21NA	NA	100	123	ug/L	123
08/18/95	G95-SE-MW-04-02-EB	BH161.21NA	NA	100	98.0	ug/L	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	1
Standard Deviation	: NC	Acceptance Criteria	60-120

Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Laboratory Control							
08/02/95	LCS	BH011.21NA	NA	100	151	ug/L	151
08/02/95	LCSD	BH011.21NA	NA	100	159	ug/L	159

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 155	Above acceptance :	2
Standard Deviation	: NC	Acceptance Criteria	60-120

Method : AK102 - Diesel Range Organics							
Spiked Analyte : Tetracosane							
Type of Spike : Surrogate - Method Blank							
08/02/95	Method Blank	BH011.21NA	NA	100	136	ug/L	136

Number of Samples	: 1	Below acceptance :	0
Mean % Recovery	: 136	Above acceptance :	1
Standard Deviation	: NC	Acceptance Criteria	60-120

Method : SW6010 - Metals
Spiked Analyte : Aluminum
Type of Spike : Laboratory Control

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Aluminum							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	45.4	mg/L	91.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	45.9	mg/L	92.0
08/14/95	LCS954953	EMJA6150814110001	NA	10.0	9.44	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	10.0	9.44	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	10.0	9.35	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	10.0	9.56	mg/L	96.0
08/14/95	LCSD955543	EMJA6150814110001	NA	10.0	9.50	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	10.0	9.43	mg/L	94.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 93.8			Above acceptance : 0				
Standard Deviation : 1.58			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Antimony							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	1.11	mg/L	111
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	1.12	mg/L	112
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	1.16	mg/L	116
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.982	mg/L	98.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	1.06	mg/L	106
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	1.09	mg/L	109
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	1.11	mg/L	111
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	1.03	mg/L	103
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 108			Above acceptance : 0				
Standard Deviation : 5.70			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.850	mg/L	85.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.994	mg/L	99.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	1.01	mg/L	101
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.987	mg/L	99.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.854	mg/L	85.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.957	mg/L	96.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.945	mg/L	94.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 94.1	Above acceptance :	0
Standard Deviation	: 6.15	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Barium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.924	mg/L	92.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.933	mg/L	93.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.945	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.942	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.941	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.958	mg/L	96.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.945	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.950	mg/L	95.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 94.1	Above acceptance :	0
Standard Deviation	: 1.25	Acceptance Criteria	80-120

Method : SW6010 - Metals
Spiked Analyte : Beryllium
Type of Spike : Laboratory Control

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Beryllium							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.923	mg/L	92.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.924	mg/L	92.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	1.02	mg/L	102
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	1.03	mg/L	103
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	1.03	mg/L	103
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	1.04	mg/L	104
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	1.03	mg/L	103
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	1.05	mg/L	105
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 5.32			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Cadmium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.853	mg/L	85.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.852	mg/L	85.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.898	mg/L	90.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.917	mg/L	92.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.901	mg/L	90.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.886	mg/L	89.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.904	mg/L	90.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.923	mg/L	92.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 89.1			Above acceptance : 0				
Standard Deviation : 2.75			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Laboratory Control							

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Calcium							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	45.9	mg/L	92.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	46.3	mg/L	93.0
08/14/95	LCS954953	EMJA6150814110001	NA	10.0	9.45	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	10.0	9.62	mg/L	96.0
08/14/95	LCS955571	EMJA6150814110001	NA	10.0	9.54	mg/L	95.0
08/14/95	LCSD954953	EMJA6150814110001	NA	10.0	9.71	mg/L	97.0
08/14/95	LCSD955543	EMJA6150814110001	NA	10.0	9.68	mg/L	97.0
08/14/95	LCSD955571	EMJA6150814110001	NA	10.0	9.65	mg/L	97.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 95.1			Above acceptance : 0				
Standard Deviation : 1.96			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Chromium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.899	mg/L	90.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.905	mg/L	90.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.930	mg/L	93.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.936	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.929	mg/L	93.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.936	mg/L	94.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.947	mg/L	95.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 92.9			Above acceptance : 0				
Standard Deviation : 1.89			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Cobalt							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.869	mg/L	87.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.869	mg/L	87.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.903	mg/L	90.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.938	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.919	mg/L	92.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.939	mg/L	94.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.929	mg/L	93.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.941	mg/L	94.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 91.4			Above acceptance : 0				
Standard Deviation : 3.02			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Copper							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.906	mg/L	91.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.912	mg/L	91.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.944	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.944	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.933	mg/L	93.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.955	mg/L	95.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.949	mg/L	95.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 93.4			Above acceptance : 0				
Standard Deviation : 1.60			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Iron							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	45.6	mg/L	91.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	46.0	mg/L	92.0
08/14/95	LCS954953	EMJA6150814110001	NA	10.0	9.79	mg/L	98.0
08/14/95	LCS955543	EMJA6150814110001	NA	10.0	9.86	mg/L	99.0
08/14/95	LCS955571	EMJA6150814110001	NA	10.0	9.77	mg/L	98.0
08/14/95	LCSD954953	EMJA6150814110001	NA	10.0	9.94	mg/L	99.0
08/14/95	LCSD955543	EMJA6150814110001	NA	10.0	9.92	mg/L	99.0
08/14/95	LCSD955571	EMJA6150814110001	NA	10.0	9.89	mg/L	99.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 96.9			Above acceptance : 0				
Standard Deviation : 3.36			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.822	mg/L	82.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.873	mg/L	87.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.885	mg/L	89.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.940	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.924	mg/L	92.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.854	mg/L	85.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.939	mg/L	94.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.880	mg/L	88.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 88.9			Above acceptance : 0				
Standard Deviation : 4.29			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Magnesium							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	45.1	mg/L	90.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	45.6	mg/L	91.0
08/14/95	LCS954953	EMJA6150814110001	NA	10.0	9.47	mg/L	95.0
08/14/95	LCS955543	EMJA6150814110001	NA	10.0	9.54	mg/L	95.0
08/14/95	LCS955571	EMJA6150814110001	NA	10.0	9.36	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	10.0	9.53	mg/L	95.0
08/14/95	LCSD955543	EMJA6150814110001	NA	10.0	9.51	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	10.0	9.45	mg/L	94.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 93.6			Above acceptance : 0				
Standard Deviation : 2.00			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Manganese							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.903	mg/L	90.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.910	mg/L	91.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.936	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.942	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.953	mg/L	95.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.946	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.951	mg/L	95.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 93.5			Above acceptance : 0				
Standard Deviation : 1.93			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Molybdenum							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Molybdenum							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.936	mg/L	94.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.940	mg/L	94.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.950	mg/L	95.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.969	mg/L	97.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.959	mg/L	96.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.988	mg/L	99.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.973	mg/L	97.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.961	mg/L	96.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: 1.69	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Nickel							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.867	mg/L	87.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.915	mg/L	91.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.922	mg/L	92.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.909	mg/L	91.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.906	mg/L	91.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.917	mg/L	92.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.908	mg/L	91.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.950	mg/L	95.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 91.3	Above acceptance :	0
Standard Deviation	: 2.19	Acceptance Criteria	80-120

Method : SW6010 - Metals
Spiked Analyte : Potassium
Type of Spike : Laboratory Control

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Potassium							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	43.3	mg/L	87.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	43.9	mg/L	88.0
08/14/95	LCS954953	EMJA6150814110001	NA	20.0	19.8	mg/L	99.0
08/14/95	LCS955543	EMJA6150814110001	NA	20.0	20.0	mg/L	100
08/14/95	LCS955571	EMJA6150814110001	NA	20.0	19.4	mg/L	97.0
08/14/95	LCSD954953	EMJA6150814110001	NA	20.0	19.8	mg/L	99.0
08/14/95	LCSD955543	EMJA6150814110001	NA	20.0	19.5	mg/L	98.0
08/14/95	LCSD955571	EMJA6150814110001	NA	20.0	19.7	mg/L	99.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 95.9			Above acceptance : 0				
Standard Deviation : 5.25			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Selenium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.843	mg/L	84.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.803	mg/L	80.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.996	mg/L	100
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.917	mg/L	92.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.875	mg/L	87.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.860	mg/L	86.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.803	mg/L	80.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 87.9			Above acceptance : 0				
Standard Deviation : 7.02			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Silver							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.850	mg/L	85.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.863	mg/L	86.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.899	mg/L	90.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.907	mg/L	91.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.900	mg/L	90.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.913	mg/L	91.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.909	mg/L	91.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.909	mg/L	91.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 89.4	Above acceptance :	0
Standard Deviation	: 2.45	Acceptance Criteria	80-120

Method : SW6010 - Metals							
Spiked Analyte : Sodium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	50.0	46.1	mg/L	92.0
08/02/95	LCSD954941	EMJA6150802103001	NA	50.0	47.4	mg/L	95.0
08/14/95	LCS954953	EMJA6150814110001	NA	10.0	9.77	mg/L	98.0
08/14/95	LCS955543	EMJA6150814110001	NA	10.0	9.72	mg/L	97.0
08/14/95	LCS955571	EMJA6150814110001	NA	10.0	10.0	mg/L	100
08/14/95	LCSD954953	EMJA6150814110001	NA	10.0	9.69	mg/L	97.0
08/14/95	LCSD955543	EMJA6150814110001	NA	10.0	9.49	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	10.0	9.72	mg/L	97.0

Number of Samples	: 8	Below acceptance :	0
Mean % Recovery	: 96.4	Above acceptance :	0
Standard Deviation	: 2.39	Acceptance Criteria	80-120

Method : SW6010 - Metals
Spiked Analyte : Thallium
Type of Spike : Laboratory Control

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Thallium							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.943	mg/L	94.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	1.08	mg/L	108
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.867	mg/L	87.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.933	mg/L	93.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.878	mg/L	88.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.966	mg/L	97.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	1.02	mg/L	102
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.955	mg/L	96.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 95.6			Above acceptance : 0				
Standard Deviation : 6.95			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Vanadium							
Type of Spike : Laboratory Control							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.909	mg/L	91.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.918	mg/L	92.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.936	mg/L	94.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.949	mg/L	95.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.943	mg/L	94.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.958	mg/L	96.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.952	mg/L	95.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.956	mg/L	96.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 94.1			Above acceptance : 0				
Standard Deviation : 1.81			Acceptance Criteria 80-120				
Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Laboratory Control							

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW6010 - Metals							
Spiked Analyte : Zinc							
Type of Spike : Laboratory Control, cont.							
08/02/95	LCS954941	EMJA6150802103001	NA	1.00	0.859	mg/L	86.0
08/02/95	LCSD954941	EMJA6150802103001	NA	1.00	0.858	mg/L	86.0
08/14/95	LCS954953	EMJA6150814110001	NA	1.00	0.919	mg/L	92.0
08/14/95	LCS955543	EMJA6150814110001	NA	1.00	0.920	mg/L	92.0
08/14/95	LCS955571	EMJA6150814110001	NA	1.00	0.920	mg/L	92.0
08/14/95	LCSD954953	EMJA6150814110001	NA	1.00	0.919	mg/L	92.0
08/14/95	LCSD955543	EMJA6150814110001	NA	1.00	0.920	mg/L	92.0
08/14/95	LCSD955571	EMJA6150814110001	NA	1.00	0.919	mg/L	92.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 90.5			Above acceptance : 0				
Standard Deviation : 2.78			Acceptance Criteria 80-120				
Method : SW7060 - Arsenic							
Spiked Analyte : Arsenic							
Type of Spike : Laboratory Control							
08/09/95	LCS954951	AAZ4__50809083401	NA	0.0500	0.0507	mg/L	101
08/09/95	LCSD954951	AAZ4__50809083401	NA	0.0500	0.0506	mg/L	101
08/14/95	LCS955540	AAZ4__50814100002	NA	0.200	0.195	mg/L	98.0
08/14/95	LCSD955540	AAZ4__50814100002	NA	0.200	0.192	mg/L	96.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 99.0			Above acceptance : 0				
Standard Deviation : 2.45			Acceptance Criteria 75-125				
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control							
08/16/95	LCS955546	AAZ1__50816080002	NA	0.200	0.202	mg/L	101
08/16/95	LCSD955546	AAZ1__50816080002	NA	0.200	0.196	mg/L	98.0
08/17/95	LCS955540	AAZ1__50817113001	NA	0.200	0.193	mg/L	96.0

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW7421 - Lead							
Spiked Analyte : Lead							
Type of Spike : Laboratory Control, cont.							
08/17/95	LCSD955540	AAZ1__50817113001	NA	0.200	0.195	mg/L	98.0
08/09/95	LCS954951	AAZ3__50809090402	NA	0.0500	0.0492	mg/L	98.0
08/09/95	LCSD954951	AAZ3__50809090402	NA	0.0500	0.0494	mg/L	99.0
08/15/95	LCS955545	AAZ3__50815150903	NA	0.0500	0.0443	mg/L	89.0
08/15/95	LCSD955545	AAZ3__50815150903	NA	0.0500	0.0451	mg/L	90.0
Number of Samples : 8			Below acceptance : 0				
Mean % Recovery : 96.1			Above acceptance : 0				
Standard Deviation : 4.32			Acceptance Criteria 75-125				
Method : SW7740 - Selenium							
Spiked Analyte : Selenium							
Type of Spike : Laboratory Control							
08/14/95	LCS955540	AAZ3__50814150001	NA	0.0500	0.0489	mg/L	98.0
08/14/95	LCSD955540	AAZ3__50814150001	NA	0.0500	0.0482	mg/L	96.0
08/15/95	LCS954951	AAZ3__50815093001	NA	0.0500	0.0527	mg/L	105
08/15/95	LCSD954951	AAZ3__50815093001	NA	0.0500	0.0550	mg/L	110
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 6.45			Acceptance Criteria 75-125				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 4,4'-DDT							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.500	0.519	ug/L	104
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.500	0.528	ug/L	106
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 25-160				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Aldrin							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.258	ug/L	103
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.263	ug/L	105

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	42-122

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dieldrin							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.500	0.497	ug/L	99.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.500	0.505	ug/L	101

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 100	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	36-146

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endosulfan II							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.500	0.512	ug/L	102
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.500	0.514	ug/L	103

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-202

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endrin							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.500	0.503	ug/L	101
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.500	0.508	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 30-147				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Endrin Aldehyde							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.500	0.248	ug/L	50.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.500	0.173	ug/L	35.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 42.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 25-120				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Heptachlor							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.260	ug/L	104
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.265	ug/L	106
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 34-120				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Heptachlor epoxide							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.274	ug/L	110
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.278	ug/L	111

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	37-142

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : PCB-1016							
Type of Spike : Laboratory Control							
08/09/95	LCS954913	CHGC8B50808120001	NA	2.50	2.40	ug/L	96.0
08/09/95	LCSD954913	CHGC8B50808120001	NA	2.50	2.42	ug/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	50-120

Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : PCB-1260							
Type of Spike : Laboratory Control							
08/09/95	LCS954913	CHGC8B50808120001	NA	2.50	2.40	ug/L	96.0
08/09/95	LCSD954913	CHGC8B50808120001	NA	2.50	2.44	ug/L	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	8-127

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : alpha-BHC							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.232	ug/L	93.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.238	ug/L	95.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 94.0 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 37-134

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : delta-BHC							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.242	ug/L	97.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.246	ug/L	98.0

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 97.5 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 19-140

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : gamma-BHC							
Type of Spike : Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	0.250	0.264	ug/L	105
08/09/95	LCSD954912	CHGC8B50808120001	NA	0.250	0.269	ug/L	107

Number of Samples : 2 — Below acceptance : 0
Mean % Recovery : 106 — Above acceptance : 0
Standard Deviation : NC — Acceptance Criteria 32-127

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Equipment Blank							
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	NA	1.01	0.971	ug/L	96.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	1.00	0.875	ug/L	88.0
08/09/95	LCS954913	CHGC8B50808120001	NA	1.00	0.841	ug/L	84.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	1.00	0.880	ug/L	88.0
08/09/95	LCSD954913	CHGC8B50808120001	NA	1.00	0.839	ug/L	84.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 86.0			Above acceptance : 0				
Standard Deviation : 2.31			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : 2,4,5,6-Tetrachloro-m-xylene							
Type of Spike : Surrogate - Method Blank							
08/09/95	BLK953181 B	CHGC8B50808120001	NA	1.00	0.899	ug/L	90.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 90.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Equipment Blank							
08/09/95	G95-13-SS-04-EB	CHGC8B50808120001	NA	1.01	0.972	ug/L	96.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Laboratory Control							
08/09/95	LCS954912 K	CHGC8B50808120001	NA	1.00	0.968	ug/L	97.0
08/09/95	LCS954913	CHGC8B50808120001	NA	1.00	0.764	ug/L	76.0
08/09/95	LCSD954912	CHGC8B50808120001	NA	1.00	0.964	ug/L	96.0
08/09/95	LCSD954913	CHGC8B50808120001	NA	1.00	0.763	ug/L	76.0
Number of Samples : 4			Below acceptance : 0				
Mean % Recovery : 86.3			Above acceptance : 0				
Standard Deviation : 11.8			Acceptance Criteria 20-150				
Method : SW8080 - Organochlorine Pesticides and PCBs							
Spiked Analyte : Dibutylchlorendate							
Type of Spike : Surrogate - Method Blank							
08/09/95	BLK953181 B	CHGC8B50808120001	NA	1.00	0.944	ug/L	94.0
Number of Samples : 1			Below acceptance : 0				
Mean % Recovery : 94.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 20-150				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics Spiked Analyte : 1,1,1-Trichloroethane Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	23.6	ug/L	118
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	23.9	ug/L	120
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 119			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 52-162				
Method : SW8240 - Volatile Organics Spiked Analyte : 1,1,2,2-Tetrachloroethane Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	18.9	ug/L	94.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.6	ug/L	103
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 46-157				
Method : SW8240 - Volatile Organics Spiked Analyte : 1,1,2-Trichloroethane Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.9	ug/L	100
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.3	ug/L	106
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 52-150				

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1-Dichloroethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	21.1	ug/L	106
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.6	ug/L	108

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	59-155

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,1-Dichloroethene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	22.1	ug/L	110
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	22.4	ug/L	112

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-234

Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloroethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	22.9	ug/L	115
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	23.9	ug/L	120

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 118	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	49-155

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 1,2-Dichloropropane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.1	ug/L	100
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.1	ug/L	101

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-210

Method : SW8240 - Volatile Organics							
Spiked Analyte : 2-Chloroethyl vinyl ether							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	16.8	ug/L	84.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.1	ug/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 90.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Method : SW8240 - Volatile Organics							
Spiked Analyte : 2-Hexanone							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	100	93.9	ug/L	94.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	100	110	ug/L	110

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 102	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : 4-Methyl-2-Pentanone(MIBK)							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	100	94.9	ug/L	95.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	100	102	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Acetone							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	100	79.3	ug/L	79.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	100	88.1	ug/L	88.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 83.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Benzene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.7	ug/L	104
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.1	ug/L	106
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 37-151				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Bromodichloromethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	18.4	ug/L	92.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	18.1	ug/L	90.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	35-155

Method : SW8240 - Volatile Organics							
Spiked Analyte : Bromomethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.0	ug/L	100
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.2	ug/L	96.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-242

Method : SW8240 - Volatile Organics							
Spiked Analyte : Carbon disulfide							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	25.1	ug/L	125
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	25.1	ug/L	125

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 125	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Carbon tetrachloride							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	18.0	ug/L	90.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	17.2	ug/L	86.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 88.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	70-140

Method : SW8240 - Volatile Organics							
Spiked Analyte : Chlorobenzene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.4	ug/L	102
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.9	ug/L	105

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	37-160

Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloroethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.4	ug/L	102
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.0	ug/L	100

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloroform							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.6	ug/L	98.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.4	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 100			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 51-138				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Chloromethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	21.1	ug/L	106
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.5	ug/L	107
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria D-273				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Dibromochloromethane							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	18.0	ug/L	90.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	18.7	ug/L	93.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 91.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 53-149				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Ethyl benzene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	21.3	ug/L	106
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	22.1	ug/L	111
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 109			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 37-162				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Methyl ethyl ketone							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	100	104	ug/L	104
08/08/95	LCSD954789	MSMSDA50808135001	NA	100	112	ug/L	112
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 108			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : Methylene chloride							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.7	ug/L	98.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.8	ug/L	99.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria D-221				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Styrene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.7	ug/L	103
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.7	ug/L	109

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 106	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Method : SW8240 - Volatile Organics							
Spiked Analyte : Tetrachloroethene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.6	ug/L	98.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.7	ug/L	98.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 98.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	64-148

Method : SW8240 - Volatile Organics							
Spiked Analyte : Toluene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.9	ug/L	104
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.1	ug/L	105

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	47-150

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Tribromomethane(Bromoform)							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	16.3	ug/L	81.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	16.7	ug/L	83.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 82.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	45-169

Method : SW8240 - Volatile Organics							
Spiked Analyte : Trichloroethene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.4	ug/L	97.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.5	ug/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 97.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	71-157

Method : SW8240 - Volatile Organics							
Spiked Analyte : Vinyl acetate							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.2	ug/L	101
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	21.9	ug/L	109

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : Vinyl chloride							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	20.3	ug/L	101
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.6	ug/L	103

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 102	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-251

Method : SW8240 - Volatile Organics							
Spiked Analyte : cis-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.0	ug/L	95.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	19.3	ug/L	97.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 96.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	D-227

Method : SW8240 - Volatile Organics							
Spiked Analyte : m&p-Xylenes							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	40.0	44.0	ug/L	110
08/08/95	LCSD954789	MSMSDA50808135001	NA	40.0	45.4	ug/L	114

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 112	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	NS

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics							
Spiked Analyte : o-Xylene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	22.1	ug/L	111
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	22.6	ug/L	113
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 112			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria NS				
Method : SW8240 - Volatile Organics							
Spiked Analyte : trans-1,2-Dichloroethene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	23.6	ug/L	118
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	23.3	ug/L	116
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 117			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 54-156				
Method : SW8240 - Volatile Organics							
Spiked Analyte : trans-1,3-Dichloropropene							
Type of Spike : Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	20.0	19.2	ug/L	96.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	20.0	20.4	ug/L	102
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 17-183				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8240 - Volatile Organics Spiked Analyte : 1,2-Dichloroethane-d4 Type of Spike : Surrogate - Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	50.0	56.8	ug/L	114
08/08/95	LCSD954789	MSMSDA50808135001	NA	50.0	57.4	ug/L	115
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 115			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 70-121				
Method : SW8240 - Volatile Organics Spiked Analyte : 1,4-Bromofluorobenzene Type of Spike : Surrogate - Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	50.0	47.6	ug/L	95.0
08/08/95	LCSD954789	MSMSDA50808135001	NA	50.0	48.7	ug/L	97.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 74-121				
Method : SW8240 - Volatile Organics Spiked Analyte : Toluene-d8 Type of Spike : Surrogate - Laboratory Control							
08/08/95	LCS954788	MSMSDA50808135001	NA	50.0	49.8	ug/L	100
08/08/95	LCSD954789	MSMSDA50808135001	NA	50.0	49.1	ug/L	98.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 99.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 81-117				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2,4-Trichlorobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	94.6	ug/L	95.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	96.5	ug/L	97.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	113	ug/L	113
08/10/95	LCS955432	MSMSD250810131301	NA	100	106	ug/L	106
08/10/95	LCSD954261	MSMSD250810131301	NA	100	96.2	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	108	ug/L	108
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 7.50			Acceptance Criteria 44-142				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,2-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	92.6	ug/L	93.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.3	ug/L	91.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	109	ug/L	109
08/10/95	LCS955432	MSMSD250810131301	NA	100	96.2	ug/L	96.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	91.5	ug/L	92.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	102	ug/L	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 97.2			Above acceptance : 0				
Standard Deviation : 7.03			Acceptance Criteria 32-129				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,3-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	90.4	ug/L	90.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.1	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	107	ug/L	107

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,3-Dichlorobenzene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	96.7	ug/L	97.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	93.3	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	103	ug/L	103

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 96.7	Above acceptance :	0
Standard Deviation	: 7.06	Acceptance Criteria	D-172

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 1,4-Dichlorobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	90.0	ug/L	90.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.2	ug/L	91.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	108	ug/L	108
08/10/95	LCS955432	MSMSD250810131301	NA	100	95.0	ug/L	95
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.6	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	102	ug/L	102

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 96.5	Above acceptance :	0
Standard Deviation	: 7.06	Acceptance Criteria	20-124

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,5-Trichlorophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	97.5	ug/L	97.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954927	MSMSD150804083501	NA	100	112	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	100	115	ug/L	115
08/10/95	LCSD954261	MSMSD250810131301	NA	100	103	ug/L	103
08/10/95	LCSD955432	MSMSD250810131301	NA	100	115	ug/L	115

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 7.81	Acceptance Criteria	37-121

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Trichlorophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	98.6	ug/L	99.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	96.8	ug/L	97.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	112	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	100	113	ug/L	113
08/10/95	LCSD954261	MSMSD250810131301	NA	100	104	ug/L	104
08/10/95	LCSD955432	MSMSD250810131301	NA	100	113	ug/L	113
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 7.31			Acceptance Criteria 37-144				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dichlorophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	91.1	ug/L	91.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	94.8	ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	108	ug/L	108
08/10/95	LCS955432	MSMSD250810131301	NA	100	111	ug/L	111
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.9	ug/L	98.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	109	ug/L	109
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 8.39			Acceptance Criteria 39-135				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dimethylphenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	48.8	ug/L	49.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	60.7	ug/L	61.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	51.1	ug/L	51.0

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dimethylphenol							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	94.1	ug/L	94.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	61.7	ug/L	62.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	65.2	ug/L	65.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 63.7	Above acceptance :	0
Standard Deviation	: 16.2	Acceptance Criteria	D-112

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	119	ug/L	119
08/04/95	LCSD954261	MSMSD150804083501	NA	100	130	ug/L	130
08/04/95	LCSD954927	MSMSD150804083501	NA	100	135	ug/L	135
08/10/95	LCS955432	MSMSD250810131301	NA	100	131	ug/L	1
08/10/95	LCSD954261	MSMSD250810131301	NA	100	122	ug/L	122
08/10/95	LCSD955432	MSMSD250810131301	NA	100	133	ug/L	133

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 128	Above acceptance :	0
Standard Deviation	: 6.38	Acceptance Criteria	D-191

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4-Dinitrotoluene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	113	ug/L	113
08/04/95	LCSD954261	MSMSD150804083501	NA	100	110	ug/L	110
08/04/95	LCSD954927	MSMSD150804083501	NA	100	130	ug/L	130
08/10/95	LCS955432	MSMSD250810131301	NA	100	112	ug/L	112
08/10/95	LCSD954261	MSMSD250810131301	NA	100	102	ug/L	102
08/10/95	LCSD955432	MSMSD250810131301	NA	100	115	ug/L	115

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 114	Above acceptance :	0
Standard Deviation	: 9.18	Acceptance Criteria	39-139

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED		RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics								
Spiked Analyte : 2,6-Dinitrotoluene								
Type of Spike : Laboratory Control								
08/04/95	LCS954927	MSMSD150804083501	NA	100	105		ug/L	105
08/04/95	LCSD954261	MSMSD150804083501	NA	100	103		ug/L	103
08/04/95	LCSD954927	MSMSD150804083501	NA	100	120		ug/L	120
08/10/95	LCS955432	MSMSD250810131301	NA	100	110		ug/L	110
08/10/95	LCSD954261	MSMSD250810131301	NA	100	101		ug/L	101
08/10/95	LCSD955432	MSMSD250810131301	NA	100	111		ug/L	111
Number of Samples : 6			Below acceptance : 0					
Mean % Recovery : 108			Above acceptance : 0					
Standard Deviation : 6.92			Acceptance Criteria 50-158					
Method : SW8270 - Semivolatile Organics								
Spiked Analyte : 2-Chloronaphthalene								
Type of Spike : Laboratory Control								
08/04/95	LCS954927	MSMSD150804083501	NA	100	96.9		ug/L	97.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.1		ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	111		ug/L	111
08/10/95	LCS955432	MSMSD250810131301	NA	100	98.3		ug/L	98.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	89.0		ug/L	89.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	101		ug/L	101
Number of Samples : 6			Below acceptance : 0					
Mean % Recovery : 98.5			Above acceptance : 0					
Standard Deviation : 7.31			Acceptance Criteria 60-118					
Method : SW8270 - Semivolatile Organics								
Spiked Analyte : 2-Chlorophenol								
Type of Spike : Laboratory Control								
08/04/95	LCS954927	MSMSD150804083501	NA	100	89.9	*	ug/L	90.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.4		ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	105		ug/L	105

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Chlorophenol							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	105	ug/L	105
08/10/95	LCSD954261	MSMSD250810131301	NA	100	95.5	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	105	ug/L	105
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.8			Above acceptance : 0				
Standard Deviation : 7.03			Acceptance Criteria 23-134				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylnaphthalene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	99.3	ug/L	99.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	93.9	ug/L	94.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	110	ug/L	11[redacted]
08/10/95	LCS955432	MSMSD250810131301	NA	100	107	ug/L	[redacted]
08/10/95	LCSD954261	MSMSD250810131301	NA	100	95.8	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	107	ug/L	107
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 6.68			Acceptance Criteria 37-150				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Methylphenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	84.1	ug/L	84.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.3	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	94.2	ug/L	94.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	102	ug/L	102
08/10/95	LCSD954261	MSMSD250810131301	NA	100	91.0	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	99.4	ug/L	99.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 93.3			Above acceptance : 0				
Standard Deviation : 6.50			Acceptance Criteria 29-133				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitroaniline							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	108	ug/L	108
08/04/95	LCSD954261	MSMSD150804083501	NA	100	102	ug/L	102
08/04/95	LCSD954927	MSMSD150804083501	NA	100	117	ug/L	117
08/10/95	LCS955432	MSMSD250810131301	NA	100	94.0	ug/L	94.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	93.6	ug/L	94.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 8.77			Acceptance Criteria 40-149				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Nitrophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	102	ug/L	102
08/04/95	LCSD954261	MSMSD150804083501	NA	100	104	ug/L	104
08/04/95	LCSD954927	MSMSD150804083501	NA	100	116	ug/L	116
08/10/95	LCS955432	MSMSD250810131301	NA	100	116	ug/L	116
08/10/95	LCSD954261	MSMSD250810131301	NA	100	103	ug/L	103
08/10/95	LCSD955432	MSMSD250810131301	NA	100	112	ug/L	112
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 109			Above acceptance : 0				
Standard Deviation : 6.59			Acceptance Criteria 29-182				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3,3'-Dichlorobenzidine							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	85.4	ug/L	85.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	81.8	ug/L	82.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	95.9	ug/L	96.0

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3,3'-Dichlorobenzidine							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	ND	ug/L	DO
08/10/95	LCSD954261	MSMSD250810131301	NA	100	87.1	ug/L	87.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	91.4	ug/L	91.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 88.2			Above acceptance : 0				
Standard Deviation : 5.45			Acceptance Criteria D-262				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 3-Nitroaniline							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	96.7	ug/L	97.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	109	ug/L	109
08/10/95	LCS955432	MSMSD250810131301	NA	100	8.54	ug/L	8
08/10/95	LCSD954261	MSMSD250810131301	NA	100	91.3	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	99.9	ug/L	100
Number of Samples : 6			Below acceptance : 1				
Mean % Recovery : 84.3			Above acceptance : 0				
Standard Deviation : 37.6			Acceptance Criteria 45-157				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4,6-Dinitro-2-methylphenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	138	ug/L	138
08/04/95	LCSD954261	MSMSD150804083501	NA	100	133	ug/L	133
08/04/95	LCSD954927	MSMSD150804083501	NA	100	147	ug/L	147
08/10/95	LCS955432	MSMSD250810131301	NA	100	131	ug/L	131
08/10/95	LCSD954261	MSMSD250810131301	NA	100	121	ug/L	121
08/10/95	LCSD955432	MSMSD250810131301	NA	100	132	ug/L	132
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 134			Above acceptance : 0				
Standard Deviation : 8.57			Acceptance Criteria D-181				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Bromophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	94.6	ug/L	95.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954927	MSMSD150804083501	NA	100	112	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	100	114	ug/L	114
08/10/95	LCSD954261	MSMSD250810131301	NA	100	102	ug/L	102
08/10/95	LCSD955432	MSMSD250810131301	NA	100	114	ug/L	114
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 106			Above acceptance : 0				
Standard Deviation : 8.07			Acceptance Criteria 53-127				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chloro-3-methylphenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	92.5	ug/L	92.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	94.8	ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	99.3	ug/L	99.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	108	ug/L	108
08/10/95	LCSD954261	MSMSD250810131301	NA	100	95.5	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	105	ug/L	105
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 99.2			Above acceptance : 0				
Standard Deviation : 6.18			Acceptance Criteria 22-147				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chlorophenyl phenyl ether							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	104	ug/L	104
08/04/95	LCSD954261	MSMSD150804083501	NA	100	99.2	ug/L	99.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	118	ug/L	118

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Chlorophenyl phenyl ether							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	110	ug/L	110
08/10/95	LCSD954261	MSMSD250810131301	NA	100	98.4	ug/L	98.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	112	ug/L	112

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: 7.86	Acceptance Criteria	25-158

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Methylphenol/3-Methylphenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	84.1	ug/L	84.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	85.4	ug/L	85.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	91.2	ug/L	91.[illegible]
08/10/95	LCS955432	MSMSD250810131301	NA	100	94.2	ug/L	9[illegible]
08/10/95	LCSD954261	MSMSD250810131301	NA	100	81.5	ug/L	82.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	91.2	ug/L	91.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 87.8	Above acceptance :	0
Standard Deviation	: 4.79	Acceptance Criteria	20-135

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitroaniline							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	94.4	ug/L	94.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.4	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	99.6	ug/L	100
08/10/95	LCS955432	MSMSD250810131301	NA	100	14.2	ug/L	14.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	89.2	ug/L	89.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	97.6	ug/L	98.0

Number of Samples	: 6	Below acceptance :	1
Mean % Recovery	: 80.8	Above acceptance :	0
Standard Deviation	: 33.0	Acceptance Criteria	25-162

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 4-Nitrophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	87.5	ug/L	88.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.3	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	95.2	ug/L	95.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	78.7	ug/L	79.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	80.0	ug/L	80.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	81.5	ug/L	82.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 85.7			Above acceptance : 0				
Standard Deviation : 6.35			Acceptance Criteria D-132				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	97.9	ug/L	98.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	109	ug/L	109
08/10/95	LCS955432	MSMSD250810131301	NA	100	100	ug/L	100
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.4	ug/L	92.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 5.72			Acceptance Criteria 47-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthylene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	96.8	ug/L	97.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.6	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	106	ug/L	106

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Acenaphthylene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	91.3	ug/L	91.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	87.8	ug/L	88.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	102	ug/L	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 96.0			Above acceptance : 0				
Standard Deviation : 6.96			Acceptance Criteria 33-145				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Anthracene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954261	MSMSD150804083501	NA	100	88.1	ug/L	88.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	105	ug/L	105
08/10/95	LCS955432	MSMSD250810131301	NA	100	103	ug/L	103
08/10/95	LCSD954261	MSMSD250810131301	NA	100	91.4	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	105	ug/L	105
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.8			Above acceptance : 0				
Standard Deviation : 7.44			Acceptance Criteria 27-133				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)anthracene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.4	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	111	ug/L	111
08/10/95	LCS955432	MSMSD250810131301	NA	100	104	ug/L	104
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.4	ug/L	97.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	109	ug/L	109
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 102			Above acceptance : 0				
Standard Deviation : 7.20			Acceptance Criteria 33-143				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(a)pyrene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	93.3	ug/L	93.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	104	ug/L	104
08/04/95	LCSD954927	MSMSD150804083501	NA	100	104	ug/L	104
08/10/95	LCS955432	MSMSD250810131301	NA	100	98.8	ug/L	99.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	104	ug/L	104
08/10/95	LCSD955432	MSMSD250810131301	NA	100	101	ug/L	101
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 4.36			Acceptance Criteria 17-163				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(b)fluoranthene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	87.8	ug/L	88.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.2	ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	103	ug/L	103
08/10/95	LCS955432	MSMSD250810131301	NA	100	90.8	ug/L	91.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.4	ug/L	97.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	95.7	ug/L	96.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 95.0			Above acceptance : 0				
Standard Deviation : 5.18			Acceptance Criteria 24-159				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(g,h,i)perylene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	99.5	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	103	ug/L	103
08/04/95	LCSD954927	MSMSD150804083501	NA	100	117	ug/L	117

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(g,h,i)perylene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	111	ug/L	111
08/10/95	LCSD954261	MSMSD250810131301	NA	100	108	ug/L	108
08/10/95	LCSD955432	MSMSD250810131301	NA	100	113	ug/L	113

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 109	Above acceptance :	0
Standard Deviation	: 6.35	Acceptance Criteria	D-219

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzo(k)fluoranthene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	115	ug/L	115
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.9	ug/L	96.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	122	ug/L	122
08/10/95	LCS955432	MSMSD250810131301	NA	100	107	ug/L	107
08/10/95	LCSD954261	MSMSD250810131301	NA	100	107	ug/L	107
08/10/95	LCSD955432	MSMSD250810131301	NA	100	100	ug/L	100

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 108	Above acceptance :	0
Standard Deviation	: 9.54	Acceptance Criteria	11-162

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzoic acid							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	107	ug/L	107
08/04/95	LCSD954261	MSMSD150804083501	NA	100	112	ug/L	112
08/04/95	LCSD954927	MSMSD150804083501	NA	100	121	ug/L	121
08/10/95	LCS955432	MSMSD250810131301	NA	100	127	ug/L	127
08/10/95	LCSD954261	MSMSD250810131301	NA	100	108	ug/L	108
08/10/95	LCSD955432	MSMSD250810131301	NA	100	111	ug/L	111

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 114	Above acceptance :	0
Standard Deviation	: 7.94	Acceptance Criteria	0-294

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Benzyl alcohol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	95.3	ug/L	95.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.4	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	106	ug/L	106
08/10/95	LCS955432	MSMSD250810131301	NA	100	96.5	ug/L	97.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	93.1	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 97.8	Above acceptance :	0
Standard Deviation	: 5.85	Acceptance Criteria	NS

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Butylbenzylphthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	102	ug/L	102
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.7	ug/L	91.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	107	ug/L	107
08/10/95	LCS955432	MSMSD250810131301	NA	100	95.1	ug/L	95.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	90.9	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	100	ug/L	100

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 97.7	Above acceptance :	0
Standard Deviation	: 6.44	Acceptance Criteria	D-152

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Chrysene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.8	ug/L	93.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	113	ug/L	113

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Chrysene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	103	ug/L	103
08/10/95	LCSD954261	MSMSD250810131301	NA	100	96.2	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	107	ug/L	107

Number of Samples : 6 — Below acceptance : 0
Mean % Recovery : 102 — Above acceptance : 0
Standard Deviation : 7.28 — Acceptance Criteria 17-168

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-butylphthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	103	ug/L	103
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.3	ug/L	91.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	104	ug/L	104
08/10/95	LCS955432	MSMSD250810131301	NA	100	98.1	ug/L	98
08/10/95	LCSD954261	MSMSD250810131301	NA	100	90.6	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	99.2	ug/L	99.0

Number of Samples : 6 — Below acceptance : 0
Mean % Recovery : 97.7 — Above acceptance : 0
Standard Deviation : 5.65 — Acceptance Criteria 1-118

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Di-n-octylphthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	109	ug/L	109
08/04/95	LCSD954261	MSMSD150804083501	NA	100	103	ug/L	103
08/04/95	LCSD954927	MSMSD150804083501	NA	100	112	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	100	99.5	ug/L	100
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.9	ug/L	98.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	99.2	ug/L	99.0

Number of Samples : 6 — Below acceptance : 0
Mean % Recovery : 104 — Above acceptance : 0
Standard Deviation : 5.75 — Acceptance Criteria 4-146

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenz(a,h)anthracene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	97.8	ug/L	98.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954927	MSMSD150804083501	NA	100	115	ug/L	115
08/10/95	LCS955432	MSMSD250810131301	NA	100	110	ug/L	110
08/10/95	LCSD954261	MSMSD250810131301	NA	100	105	ug/L	105
08/10/95	LCSD955432	MSMSD250810131301	NA	100	112	ug/L	112
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 107			Above acceptance : 0				
Standard Deviation : 6.80			Acceptance Criteria D-227				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dibenzofuran							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	98.5	ug/L	98.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.6	ug/L	96.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	110	ug/L	110
08/10/95	LCS955432	MSMSD250810131301	NA	100	104	ug/L	104
08/10/95	LCSD954261	MSMSD250810131301	NA	100	94.4	ug/L	94.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	106	ug/L	106
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 6.28			Acceptance Criteria 67-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diethylphthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.0	ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	110	ug/L	110

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diethylphthalate							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	96.9	ug/L	97.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	88.5	ug/L	88.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	101	ug/L	101

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 98.5	Above acceptance :	0
Standard Deviation	: 7.29	Acceptance Criteria	20-162

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Dimethylphthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	106	ug/L	106
08/04/95	LCSD954261	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954927	MSMSD150804083501	NA	100	118	ug/L	118
08/10/95	LCS955432	MSMSD250810131301	NA	100	107	ug/L	107
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.3	ug/L	97.3
08/10/95	LCSD955432	MSMSD250810131301	NA	100	110	ug/L	110

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 106	Above acceptance :	0
Standard Deviation	: 7.45	Acceptance Criteria	D-179

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Diphenylamine (N-Nitrosodiphenylamine)							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	88.2	ug/L	88.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	80.6	ug/L	81.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	90.6	ug/L	91.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	35.0	ug/L	35.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	78.8	ug/L	79.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	87.5	ug/L	88.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 77.0	Above acceptance :	0
Standard Deviation	: 21.1	Acceptance Criteria	NS

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluoranthene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	103	ug/L	103
08/04/95	LCSD954261	MSMSD150804083501	NA	100	96.6	ug/L	97.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	110	ug/L	110
08/10/95	LCS955432	MSMSD250810131301	NA	100	107	ug/L	107
08/10/95	LCSD954261	MSMSD250810131301	NA	100	98.7	ug/L	99.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	109	ug/L	109

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 104	Above acceptance :	0
Standard Deviation	: 5.38	Acceptance Criteria	26-137

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Fluorene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	98.0	ug/L	98.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	93.4	ug/L	93.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	110	ug/L	110
08/10/95	LCS955432	MSMSD250810131301	NA	100	103	ug/L	103
08/10/95	LCSD954261	MSMSD250810131301	NA	100	94.2	ug/L	94.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	106	ug/L	106

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 6.80	Acceptance Criteria	59-121

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	94.4	ug/L	94.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.0	ug/L	91.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	111	ug/L	111

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobenzene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	113	ug/L	113
08/10/95	LCSD954261	MSMSD250810131301	NA	100	102	ug/L	102
08/10/95	LCSD955432	MSMSD250810131301	NA	100	116	ug/L	116

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 105	Above acceptance :	0
Standard Deviation	: 10.4	Acceptance Criteria	D-152

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorobutadiene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	91.4	ug/L	91.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954927	MSMSD150804083501	NA	100	114	ug/L	114
08/10/95	LCS955432	MSMSD250810131301	NA	100	106	ug/L	106
08/10/95	LCSD954261	MSMSD250810131301	NA	100	97.0	ug/L	97.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	107	ug/L	107

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 8.17	Acceptance Criteria	23-140

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachlorocyclopentadiene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	9.38	ug/L	9.40
08/04/95	LCSD954261	MSMSD150804083501	NA	100	34.2	ug/L	34.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	10.1	ug/L	10.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	36.2	ug/L	36.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	30.0	ug/L	30.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	23.6	ug/L	24.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 23.9	Above acceptance :	0
Standard Deviation	: 11.7	Acceptance Criteria	0-308

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Hexachloroethane							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	96.7	ug/L	97.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.6	ug/L	93.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	114	ug/L	114
08/10/95	LCS955432	MSMSD250810131301	NA	100	90.5	ug/L	90.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	85.2	ug/L	85.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	99.0	ug/L	99.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 96.3			Above acceptance : 0				
Standard Deviation : 9.99			Acceptance Criteria 42-165				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Indeno(1,2,3-cd)pyrene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	102	ug/L	102
08/04/95	LCSD954261	MSMSD150804083501	NA	100	104	ug/L	104
08/04/95	LCSD954927	MSMSD150804083501	NA	100	117	ug/L	117
08/10/95	LCS955432	MSMSD250810131301	NA	100	110	ug/L	110
08/10/95	LCSD954261	MSMSD250810131301	NA	100	108	ug/L	108
08/10/95	LCSD955432	MSMSD250810131301	NA	100	111	ug/L	111
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 109			Above acceptance : 0				
Standard Deviation : 5.35			Acceptance Criteria D-171				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Isophorone							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	97.2	ug/L	97.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	89.6	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	104	ug/L	104

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Isophorone							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	105	ug/L	105
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.8	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.8			Above acceptance : 0				
Standard Deviation : 6.43			Acceptance Criteria 21-196				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : N-Nitroso-di-n-propylamine							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	95.8	ug/L	96.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	93.3	ug/L	93.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	104	ug/L	104
08/10/95	LCS955432	MSMSD250810131301	NA	100	99.3	ug/L	99
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.5	ug/L	92.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	102	ug/L	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 97.7			Above acceptance : 0				
Standard Deviation : 4.84			Acceptance Criteria D-230				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Naphthalene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	93.1	ug/L	93.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	93.6	ug/L	94.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	108	ug/L	108
08/10/95	LCS955432	MSMSD250810131301	NA	100	102	ug/L	102
08/10/95	LCSD954261	MSMSD250810131301	NA	100	93.6	ug/L	94.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 99.2			Above acceptance : 0				
Standard Deviation : 6.34			Acceptance Criteria 21-133				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	99.0	ug/L	99.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	95.5	ug/L	95.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	107	ug/L	107
08/10/95	LCS955432	MSMSD250810131301	NA	100	101	ug/L	101
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.1	ug/L	92.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	104	ug/L	104
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 99.7			Above acceptance : 0				
Standard Deviation : 5.57			Acceptance Criteria 35-180				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pentachlorophenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	110	ug/L	110
08/04/95	LCSD954927	MSMSD150804083501	NA	100	126	ug/L	126
08/10/95	LCS955432	MSMSD250810131301	NA	100	113	ug/L	113
08/10/95	LCSD954261	MSMSD250810131301	NA	100	106	ug/L	106
08/10/95	LCSD955432	MSMSD250810131301	NA	100	115	ug/L	115
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 112			Above acceptance : 0				
Standard Deviation : 8.82			Acceptance Criteria 14-176				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenanthrene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	99.4	ug/L	99.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.8	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	107	ug/L	107

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenanthrene							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	105	ug/L	105
08/10/95	LCSD954261	MSMSD250810131301	NA	100	96.0	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	106	ug/L	106

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 101	Above acceptance :	0
Standard Deviation	: 6.11	Acceptance Criteria	54-120

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	88.5	ug/L	88.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	85.1	ug/L	85.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	98.0	ug/L	98.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	90.4	ug/L	90.4
08/10/95	LCSD954261	MSMSD250810131301	NA	100	90.0	ug/L	90.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	91.0	ug/L	91.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 90.3	Above acceptance :	0
Standard Deviation	: 4.32	Acceptance Criteria	5-112

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Pyrene							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	100	ug/L	100
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.9	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	108	ug/L	108
08/10/95	LCS955432	MSMSD250810131301	NA	100	106	ug/L	106
08/10/95	LCSD954261	MSMSD250810131301	NA	100	98.1	ug/L	98.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	111	ug/L	111

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 103	Above acceptance :	0
Standard Deviation	: 7.09	Acceptance Criteria	52-115

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethoxy)methane							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	98.2	ug/L	98.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	92.3	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	106	ug/L	106
08/10/95	LCS955432	MSMSD250810131301	NA	100	90.6	ug/L	91.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	96.3	ug/L	96.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	108	ug/L	108
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 98.5			Above acceptance : 0				
Standard Deviation : 7.09			Acceptance Criteria 33-184				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroethyl)ether							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	97.8	ug/L	98.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	91.6	ug/L	92.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	111	ug/L	111
08/10/95	LCS955432	MSMSD250810131301	NA	100	105	ug/L	105
08/10/95	LCSD954261	MSMSD250810131301	NA	100	101	ug/L	101
08/10/95	LCSD955432	MSMSD250810131301	NA	100	112	ug/L	112
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 103			Above acceptance : 0				
Standard Deviation : 7.73			Acceptance Criteria 12-158				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroisopropyl)ether							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	83.8	ug/L	84.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	90.2	ug/L	90.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	100	ug/L	100

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Chloroisopropyl)ether							
Type of Spike : Laboratory Control, cont.							
08/10/95	LCS955432	MSMSD250810131301	NA	100	93.4	ug/L	93.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	92.8	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	95.8	ug/L	96.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 92.7			Above acceptance : 0				
Standard Deviation : 5.43			Acceptance Criteria 36-166				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : bis(2-Ethylhexyl)phthalate							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	106	ug/L	106
08/04/95	LCSD954261	MSMSD150804083501	NA	100	98.2	ug/L	98.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	112	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	100	96.5	ug/L	9[illegible]
08/10/95	LCSD954261	MSMSD250810131301	NA	100	91.9	ug/L	92.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	102	ug/L	102
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : 7.24			Acceptance Criteria 8-158				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : p-Chloroaniline							
Type of Spike : Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	105	ug/L	105
08/04/95	LCSD954261	MSMSD150804083501	NA	100	101	ug/L	101
08/04/95	LCSD954927	MSMSD150804083501	NA	100	114	ug/L	114
08/10/95	LCS955432	MSMSD250810131301	NA	100	7.27	ug/L	7.30
08/10/95	LCSD954261	MSMSD250810131301	NA	100	82.2	ug/L	82.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	90.3	ug/L	90.0
Number of Samples : 6			Below acceptance : 1				
Mean % Recovery : 83.2			Above acceptance : 0				
Standard Deviation : 38.9			Acceptance Criteria 55-153				

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	194	201	ug/L	104
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	211	231	ug/L	110

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 107	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	19-122

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	200	169	ug/L	85.0
08/04/95	LCSD954261	MSMSD150804083501	NA	200	236	ug/L	118
08/04/95	LCSD954927	MSMSD150804083501	NA	200	238	ug/L	119
08/10/95	LCS955432	MSMSD250810131301	NA	200	221	ug/L	110
08/10/95	LCSD954261	MSMSD250810131301	NA	200	230	ug/L	115
08/10/95	LCSD955432	MSMSD250810131301	NA	200	223	ug/L	111

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 110	Above acceptance :	0
Standard Deviation	: 12.6	Acceptance Criteria	19-122

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2,4,6-Tribromophenol							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	200	214	ug/L	107
08/10/95	BLK953522	MSMSD250810131301	NA	200	228	ug/L	114

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 111	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	19-122

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NR = Not Reported * = Value considered suspect, refer to QC report DO = Diluted Out

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	97.1	93.9	ug/L	97.0
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	105	103	ug/L	98.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 97.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 54-115				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	90.8	ug/L	91.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	45.6	ug/L	46.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	104	ug/L	104
08/10/95	LCS955432	MSMSD250810131301	NA	100	98.5	ug/L	98
08/10/95	LCSD954261	MSMSD250810131301	NA	100	74.4	ug/L	74
08/10/95	LCSD955432	MSMSD250810131301	NA	100	97.0	ug/L	97.0
Number of Samples : 6			Below acceptance : 1				
Mean % Recovery : 85.0			Above acceptance : 0				
Standard Deviation : 21.7			Acceptance Criteria 54-115				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorobiphenyl							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	100	90.4	ug/L	90.0
08/10/95	BLK953522	MSMSD250810131301	NA	100	84.9	ug/L	85.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 87.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 54-115				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	194	179	ug/L	92.0
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	211	183	ug/L	87.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 46-119				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	200	159	ug/L	79.0
08/04/95	LCSD954261	MSMSD150804083501	NA	200	179	ug/L	89.0
08/04/95	LCSD954927	MSMSD150804083501	NA	200	187	ug/L	93.0
08/10/95	LCS955432	MSMSD250810131301	NA	200	190	ug/L	95.0
08/10/95	LCSD954261	MSMSD250810131301	NA	200	182	ug/L	91.0
08/10/95	LCSD955432	MSMSD250810131301	NA	200	179	ug/L	90.0
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 89.5			Above acceptance : 0				
Standard Deviation : 5.58			Acceptance Criteria 46-119				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : 2-Fluorophenol							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	200	165	ug/L	82.0
08/10/95	BLK953522	MSMSD250810131301	NA	200	181	ug/L	90.0
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 86.0			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 46-119				

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	97.1	92.3	ug/L	95.0
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	105	99.0	ug/L	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 94.5	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	49-120

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	87.0	ug/L	87.0
08/04/95	LCSD954261	MSMSD150804083501	NA	100	94.5	ug/L	94.0
08/04/95	LCSD954927	MSMSD150804083501	NA	100	99.4	ug/L	99.0
08/10/95	LCS955432	MSMSD250810131301	NA	100	97.1	ug/L	97.0
08/10/95	LCSD954261	MSMSD250810131301	NA	100	93.4	ug/L	93.0
08/10/95	LCSD955432	MSMSD250810131301	NA	100	94.3	ug/L	94.0

Number of Samples	: 6	Below acceptance :	0
Mean % Recovery	: 94.0	Above acceptance :	0
Standard Deviation	: 4.10	Acceptance Criteria	49-120

Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Nitrobenzene-d5							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	100	88.0	ug/L	88.0
08/10/95	BLK953522	MSMSD250810131301	NA	100	94.5	ug/L	94.0

Number of Samples	: 2	Below acceptance :	0
Mean % Recovery	: 91.0	Above acceptance :	0
Standard Deviation	: NC	Acceptance Criteria	49-120

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TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	194	211	ug/L	109
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	211	211	ug/L	100
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 105			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	200	192	ug/L	96.0
08/04/95	LCSD954261	MSMSD150804083501	NA	200	211	ug/L	105
08/04/95	LCSD954927	MSMSD150804083501	NA	200	223	ug/L	112
08/10/95	LCS955432	MSMSD250810131301	NA	200	202	ug/L	101
08/10/95	LCSD954261	MSMSD250810131301	NA	200	216	ug/L	108
08/10/95	LCSD955432	MSMSD250810131301	NA	200	200	ug/L	100
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 104			Above acceptance : 0				
Standard Deviation : 5.82			Acceptance Criteria 50-122				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Phenol-d5							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	200	197	ug/L	98.0
08/10/95	BLK953522	MSMSD250810131301	NA	200	208	ug/L	104
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 101			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 50-122				

TABLE D-9 DETAILED LISTING OF LIQUID SPIKE RESULTS - SOIL SAMPLES, GALENA 1995

DATE ANALYZED	SAMPLE ID	BATCH ID	ORIG. RESULT	AMOUNT SPIKED	AMOUNT RECOVERED	RESULT UNIT	% RECOVERY
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Equipment Blank							
08/04/95	G95-13-SS-04-EB	MSMSD150804083501	NA	97.1	109	ug/L	112
08/10/95	G95-SE-MW-04-02-EB	MSMSD250810131301	NA	105	116	ug/L	110
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 111			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 53-133				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Laboratory Control							
08/04/95	LCS954927	MSMSD150804083501	NA	100	105	ug/L	105
08/04/95	LCSD954261	MSMSD150804083501	NA	100	110	ug/L	110
08/04/95	LCSD954927	MSMSD150804083501	NA	100	117	ug/L	117
08/10/95	LCS955432	MSMSD250810131301	NA	100	111	ug/L	111
08/10/95	LCSD954261	MSMSD250810131301	NA	100	117	ug/L	1
08/10/95	LCSD955432	MSMSD250810131301	NA	100	112	ug/L	112
Number of Samples : 6			Below acceptance : 0				
Mean % Recovery : 112			Above acceptance : 0				
Standard Deviation : 4.56			Acceptance Criteria 53-133				
Method : SW8270 - Semivolatile Organics							
Spiked Analyte : Terphenyl-d14							
Type of Spike : Surrogate - Method Blank							
08/04/95	BLK953194	MSMSD150804083501	NA	100	108	ug/L	108
08/10/95	BLK953522	MSMSD250810131301	NA	100	113	ug/L	113
Number of Samples : 2			Below acceptance : 0				
Mean % Recovery : 111			Above acceptance : 0				
Standard Deviation : NC			Acceptance Criteria 53-133				

Date Compiled: 21 March 1996 ND = Not Detected NC = Not Calculable NS = Not Specified
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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = AK101 - Gasoline Range Organics							
Type of Duplicate : Matrix Spike Duplicate							
Gasoline	G95-13-SS-06	G95-13-SS-06	90.0 (J)	80.0 (J)	85.0	7.07	11.8
Gasoline	G95-SE-MW-02-02	G95-SE-MW-02-02	109 (J)	100 (J)	105	6.36	8.61
Method = AK102 - Diesel Range Organics							
Type of Duplicate : Laboratory Control Duplicate							
Diesel	LCS	LCSD	77.0	90.0	83.5	9.19	15.6
Diesel	LCS	LCSD	96.0	102	99.0	4.24	6.06
Method = AK102 - Diesel Range Organics							
Type of Duplicate : Matrix Spike Duplicate							
Diesel	G95-SE-MW-02-02	G95-SE-MW-02-02	99.0 (J)	107 (J)	103	5.66	7.77
Diesel	G95-SE-SB-02-01	G95-SE-SB-02-01	60.0	70.0	65.0	7.07	15.4
Method = ASTMD2216 - Modified							
Type of Duplicate : Analytical Duplicate of Normal Sample							
Percent moisture	G95-13-SS-01	G95-13-SS-01	4.80	3.60	4.20	0.849	28.6
Percent moisture	G95-SE-MW-03-02	G95-SE-MW-03-02	3.55	3.57	3.56	0.0141	0.562

Compiled: 12 October 1995

NC = Not Calculable () = Data Flag

TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate							
Aluminum	218Y954942	218YD954942	106	93.0	99.5	9.19	13.1
Antimony	218Y954942	218YD954942	82.0	191	137	77.1	79.9
Arsenic	218Y954942	218YD954942	102	86.0	94.0	11.3	17.0
Barium	218Y954942	218YD954942	100	97.0	98.5	2.12	3.05
Beryllium	218Y954942	218YD954942	98.0	94.0	96.0	2.83	4.17
Cadmium	218Y954942	218YD954942	90.0	88.0	89.0	1.41	2.25
Calcium	218Y954942	218YD954942	98.0	95.0	96.5	2.12	3.11
Chromium	218Y954942	218YD954942	99.0	96.0	97.5	2.12	3.08
Cobalt	218Y954942	218YD954942	98.0	99.0	98.5	0.707	1.02
Copper	218Y954942	218YD954942	96.0	94.0	95.0	1.41	2.11
Iron	218Y954942	218YD954942	111	110	111	0.707	0.905
Lead	218Y954942	218YD954942	84.0	85.0	84.5	0.707	1.18
Magnesium	218Y954942	218YD954942	104	99.0	102	3.54	4.93
Manganese	218Y954942	218YD954942	103	99.0	101	2.83	3.96
Molybdenum	218Y954942	218YD954942	95.0	97.0	96.0	1.41	2.08
Nickel	218Y954942	218YD954942	101	97.0	99.0	2.83	4.04
Potassium	218Y954942	218YD954942	98.0	90.0	94.0	5.66	8.51
Selenium	218Y954942	218YD954942	75.0	71.0	73.0	2.83	5.48
Silver	218Y954942	218YD954942	87.0	88.0	87.5	0.707	1.14
Sodium	218Y954942	218YD954942	103	98.0	101	3.54	4.98
Thallium	218Y954942	218YD954942	96.0	102	99.0	4.24	6.06
Vanadium	218Y954942	218YD954942	99.0	98.0	98.5	0.707	1.02
Zinc	218Y954942	218YD954942	94.0	94.0	94.0	0.00	0.00

Compiled: 12 October 1995

NC = Not C[illegible]ulable () = Data Flag

TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Matrix Spike Duplicate							
Aluminum	G95-13-SS-02	G95-13-SS-02	114	125	120	7.78	9.21
Antimony	G95-13-SS-02	G95-13-SS-02	96.0	99.0	97.5	2.12	3.08
Arsenic	G95-13-SS-02	G95-13-SS-02	75.0	76.0	75.5	0.707	1.32
Barium	G95-13-SS-02	G95-13-SS-02	167	127	147	28.3	27.2
Beryllium	G95-13-SS-02	G95-13-SS-02	90.0	90.0	90.0	0.00	0.00
Cadmium	G95-13-SS-02	G95-13-SS-02	85.0	84.0	84.5	0.707	1.18
Calcium	G95-13-SS-02	G95-13-SS-02	102	106	104	2.83	3.85
Chromium	G95-13-SS-02	G95-13-SS-02	90.0	90.0	90.0	0.00	0.00
Cobalt	G95-13-SS-02	G95-13-SS-02	82.0	85.0	83.5	2.12	3.59
Copper	G95-13-SS-02	G95-13-SS-02	88.0	89.0	88.5	0.707	1.13
Iron	G95-13-SS-02	G95-13-SS-02	30.0	62.0	46.0	22.6	69.6
Lead	G95-13-SS-02	G95-13-SS-02	77.0	85.0	81.0	5.66	9.88
Magnesium	G95-13-SS-02	G95-13-SS-02	83.0	93.0	88.0	7.07	11.4
Manganese	G95-13-SS-02	G95-13-SS-02	53.0	69.0	61.0	11.3	26.2
Molybdenum	G95-13-SS-02	G95-13-SS-02	86.0	88.0	87.0	1.41	2.30
Nickel	G95-13-SS-02	G95-13-SS-02	78.0	83.0	80.5	3.54	6.21
Potassium	G95-13-SS-02	G95-13-SS-02	94.0	94.0	94.0	0.00	0.00
Selenium	G95-13-SS-02	G95-13-SS-02	92.0	72.0	82.0	14.1	24.4
Silver	G95-13-SS-02	G95-13-SS-02	81.0	84.0	82.5	2.12	3.64
Sodium	G95-13-SS-02	G95-13-SS-02	96.0	96.0	96.0	0.00	0.00
Thallium	G95-13-SS-02	G95-13-SS-02	135	125	130	7.07	7.69
Vanadium	G95-13-SS-02	G95-13-SS-02	90.0	95.0	92.5	3.54	5.41
Zinc	G95-13-SS-02	G95-13-SS-02	80.0	82.0	81.0	1.41	2.47

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW7060 - Arsenic							
Type of Duplicate : Laboratory Control Duplicate							
Arsenic	218Y955541	218YD955541	103	108	106	3.54	4.74
Method = SW7060 - Arsenic							
Type of Duplicate : Matrix Spike Duplicate							
Arsenic	G95-13-SS-02	G95-13-SS-02	102	109	106	4.95	6.64
Method = SW7421 - Lead							
Type of Duplicate : Laboratory Control Duplicate							
Lead	218Y955541	218YD955541	101	101	101	0.00	0.00
Lead	218Z955547	218ZD955547	107	106	107	0.707	0.939
Method = SW7421 - Lead							
Type of Duplicate : Matrix Spike Duplicate							
Lead	G95-13-SS-02	G95-13-SS-02	106	112	109	4.24	5.50
Lead	G95-SE-SS-01	G95-SE-SS-01	97.0	97.0	97.0	0.00	0.00
Method = SW7740 - Selenium							
Type of Duplicate : Laboratory Control Duplicate							
Selenium	218Y955541	218YD955541	94.0	95.0	94.5	0.707	1.06

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW7740 - Selenium							
Type of Duplicate : Matrix Spike Duplicate							
Selenium	G95-13-SS-02	G95-13-SS-02	88.0	92.0	90.0	2.83	4.44
Method = SW8080 - Organochlorine Pesticides and PCBs							
Type of Duplicate : Laboratory Control Duplicate							
4,4'-DDT	LCS954934	LCSD954934	94.0	94.0	94.0	0.00	0.00
Aldrin	LCS954934	LCSD954934	95.0	94.0	94.5	0.707	1.06
Dieldrin	LCS954934	LCSD954934	91.0	91.0	91.0	0.00	0.00
Endosulfan II	LCS954934	LCSD954934	91.0	91.0	91.0	0.00	0.00
Endrin	LCS954934	LCSD954934	84.0	86.0	85.0	1.41	2.35
Endrin Aldehyde	LCS954934	LCSD954934	76.0	91.0	83.5	10.6	18.0
Heptachlor	LCS954934	LCSD954934	95.0	93.0	94.0	1.41	2.13
Heptachlor epoxide	LCS954934	LCSD954934	98.0	97.0	97.5	0.707	1.03
PCB-1016	LCS954935	LCSD954935	89.0	93.0	91.0	2.83	4.40
PCB-1260	LCS954935	LCSD954935	90.0	93.0	91.5	2.12	3.28
alpha-BHC	LCS954934	LCSD954934	90.0	89.0	89.5	0.707	1.12
alpha-Chlordane	LCS954934	LCSD954934	101	101	101	0.00	0.00
delta-BHC	LCS954934	LCSD954934	89.0	88.0	88.5	0.707	1.13
gamma-BHC	LCS954934	LCSD954934	101	99.0	100	1.41	2.00
gamma-Chlordane	LCS954934	LCSD954934	96.0	95.0	95.5	0.707	1.05
Method = SW8080 - Organochlorine Pesticides and PCBs							
Type of Duplicate : Matrix Spike Duplicate							
4,4'-DDT	G95-13-SS-02	G95-13-SS-02	83.0	102	92.5	13.4	20.5

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8080 - Organochlorine Pesticides and PCBs							
Type of Duplicate : Matrix Spike Duplicate , cont.							
Aldrin	G95-13-SS-02	G95-13-SS-02	86.0	90.0	88.0	2.83	4.55
Dieldrin	G95-13-SS-02	G95-13-SS-02	88.0	90.0	89.0	1.41	2.25
Endrin	G95-13-SS-02	G95-13-SS-02	95.0	98.0	96.5	2.12	3.11
Heptachlor	G95-13-SS-02	G95-13-SS-02	85.0	87.0	86.0	1.41	2.33
gamma-BHC	G95-13-SS-02	G95-13-SS-02	85.0	87.0	86.0	1.41	2.33
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate							
1,1,1-Trichloroethane	LCS954420	LCSD954421	111	106	109	3.54	4.61
1,1,1-Trichloroethane	LCS955494	LCSD955495	114	112	113	1.41	1.77
1,1,2,2-Tetrachloroethane	LCS954420	LCSD954421	101	101	101	0.00	0.00
1,1,2,2-Tetrachloroethane	LCS955494	LCSD955495	103	111	107	5.66	7.48
1,1,2-Trichloroethane	LCS954420	LCSD954421	95.0	93.0	94.0	1.41	2.13
1,1,2-Trichloroethane	LCS955494	LCSD955495	101	101	101	0.00	0.00
1,1-Dichloroethane	LCS954420	LCSD954421	105	102	104	2.12	2.90
1,1-Dichloroethane	LCS955494	LCSD955495	107	108	108	0.707	0.930
1,1-Dichloroethene	LCS954420	LCSD954421	102	99.0	101	2.12	2.99
1,1-Dichloroethene	LCS955494	LCSD955495	109	105	107	2.83	3.74
1,2-Dichloroethane	LCS954420	LCSD954421	117	111	114	4.24	5.26
1,2-Dichloroethane	LCS955494	LCSD955495	118	117	118	0.707	0.851
1,2-Dichloropropane	LCS954420	LCSD954421	102	98.0	100	2.83	4.00
1,2-Dichloropropane	LCS955494	LCSD955495	100	103	102	2.12	2.96
2-Chloroethyl vinyl ether	LCS954420	LCSD954421	95.0	93.0	94.0	1.41	2.13
2-Chloroethyl vinyl ether	LCS955494	LCSD955495	95.0	99.0	97.0	2.83	4.12
2-Hexanone	LCS954420	LCSD954421	97.0	101	99.0	2.83	4.04

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
2-Hexanone	LCS955494	LCSD955495	117	126	122	6.36	7.41
4-Methyl-2-Pentanone(MIBK)	LCS954420	LCSD954421	104	107	106	2.12	2.84
4-Methyl-2-Pentanone(MIBK)	LCS955494	LCSD955495	103	110	107	4.95	6.57
Acetone	LCS954420	LCSD954421	136	137	137	0.707	0.733
Acetone	LCS955494	LCSD955495	224	235	230	7.78	4.79
Benzene	LCS954420	LCSD954421	105	102	104	2.12	2.90
Benzene	LCS955494	LCSD955495	108	108	108	0.00	0.00
Bromodichloromethane	LCS954420	LCSD954421	103	98.0	101	3.54	4.98
Bromodichloromethane	LCS955494	LCSD955495	109	109	109	0.00	0.00
Bromomethane	LCS954420	LCSD954421	102	93.0	97.5	6.36	9.23
Bromomethane	LCS955494	LCSD955495	101	99.0	100	1.41	2.00
Carbon disulfide	LCS954420	LCSD954421	112	109	111	2.12	2.71
Carbon disulfide	LCS955494	LCSD955495	117	114	116	2.12	2.60
Carbon tetrachloride	LCS954420	LCSD954421	88.0	85.0	86.5	2.12	3.47
Carbon tetrachloride	LCS955494	LCSD955495	96.0	94.0	95.0	1.41	2.11
Chlorobenzene	LCS954420	LCSD954421	94.0	92.0	93.0	1.41	2.15
Chlorobenzene	LCS955494	LCSD955495	100	100	100	0.00	0.00
Chloroethane	LCS954420	LCSD954421	101	96.0	98.5	3.54	5.08
Chloroethane	LCS955494	LCSD955495	93.0	96.0	94.5	2.12	3.17
Chloroform	LCS954420	LCSD954421	104	99.0	102	3.54	4.93
Chloroform	LCS955494	LCSD955495	102	105	104	2.12	2.90
Chloromethane	LCS954420	LCSD954421	106	101	104	3.54	4.83
Chloromethane	LCS955494	LCSD955495	102	101	102	0.707	0.985
Dibromochloromethane	LCS954420	LCSD954421	90.0	85.0	87.5	3.54	5.71
Dibromochloromethane	LCS955494	LCSD955495	96.0	95.0	95.5	0.707	1.05
Ethyl benzene	LCS954420	LCSD954421	101	98.0	99.5	2.12	3.02
Ethyl benzene	LCS955494	LCSD955495	107	107	107	0.00	0.00

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Methyl ethyl ketone	LCS954420	LCSD954421	109	109	109	0.00	0.00
Methyl ethyl ketone	LCS955494	LCSD955495	137	142	140	3.54	3.58
Methylene chloride	LCS954420	LCSD954421	87.0	81.0	84.0	4.24	7.14
Methylene chloride	LCS955494	LCSD955495	87.0	84.0	85.5	2.12	3.51
Styrene	LCS954420	LCSD954421	100	97.0	98.5	2.12	3.05
Styrene	LCS955494	LCSD955495	102	103	103	0.707	0.976
Tetrachloroethene	LCS954420	LCSD954421	85.0	82.0	83.5	2.12	3.59
Tetrachloroethene	LCS955494	LCSD955495	93.0	94.0	93.5	0.707	1.07
Toluene	LCS954420	LCSD954421	103	99.0	101	2.83	3.96
Toluene	LCS955494	LCSD955495	109	107	108	1.41	1.85
Tribromomethane(Bromoform)	LCS954420	LCSD954421	85.0	84.0	84.5	0.707	1.18
Tribromomethane(Bromoform)	LCS955494	LCSD955495	93.0	96.0	94.5	2.12	3.17
Trichloroethene	LCS954420	LCSD954421	92.0	89.0	90.5	2.12	3.31
Trichloroethene	LCS955494	LCSD955495	98.0	97.0	97.5	0.707	1.03
Vinyl acetate	LCS954420	LCSD954421	115	111	113	2.83	3.54
Vinyl acetate	LCS955494	LCSD955495	96.0	101	98.5	3.54	5.08
Vinyl chloride	LCS954420	LCSD954421	105	97.0	101	5.66	7.92
Vinyl chloride	LCS955494	LCSD955495	99.0	101	100	1.41	2.00
cis-1,3-Dichloropropene	LCS954420	LCSD954421	96.0	93.0	94.5	2.12	3.17
cis-1,3-Dichloropropene	LCS955494	LCSD955495	99.0	100	99.5	0.707	1.01
m&p-Xylenes	LCS954420	LCSD954421	105	101	103	2.83	3.88
m&p-Xylenes	LCS955494	LCSD955495	109	108	109	0.707	0.922
o-Xylene	LCS954420	LCSD954421	103	103	103	0.00	0.00
o-Xylene	LCS955494	LCSD955495	108	107	108	0.707	0.930
trans-1,2-Dichloroethene	LCS954420	LCSD954421	110	105	108	3.54	4.65
trans-1,2-Dichloroethene	LCS955494	LCSD955495	116	113	115	2.12	2.62
trans-1,3-Dichloropropene	LCS954420	LCSD954421	100	95.0	97.5	3.54	5.13

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
trans-1,3-Dichloropropene	LCS955494	LCSD955495	108	107	108	0.707	0.930
Method = SW8240 - Volatile Organics							
Type of Duplicate : Matrix Spike Duplicate							
1,1-Dichloroethene	G95-13-SS-01	G95-13-SS-01	107	105	106	1.41	1.89
1,1-Dichloroethene	G95-SE-MW-02-02	G95-SE-MW-02-02	94.0	96.0	95.0	1.41	2.11
1,1-Dichloroethene	G95-SE-SB-01-02	G95-SE-SB-01-02	76.0	72.0	74.0	2.83	5.41
Benzene	G95-13-SS-01	G95-13-SS-01	102	105	104	2.12	2.90
Benzene	G95-SE-MW-02-02	G95-SE-MW-02-02	102	106	104	2.83	3.85
Benzene	G95-SE-SB-01-02	G95-SE-SB-01-02	73.0	77.0	75.0	2.83	5.33
Chlorobenzene	G95-13-SS-01	G95-13-SS-01	98.0	97.0	97.5	0.707	1.03
Chlorobenzene	G95-SE-MW-02-02	G95-SE-MW-02-02	104	105	105	0.707	0.957
Chlorobenzene	G95-SE-SB-01-02	G95-SE-SB-01-02	77.0	82.0	79.5	3.54	6.29
Toluene	G95-13-SS-01	G95-13-SS-01	95.0	96.0	95.5	0.707	1.05
Toluene	G95-SE-MW-02-02	G95-SE-MW-02-02	104	105	105	0.707	0.957
Toluene	G95-SE-SB-01-02	G95-SE-SB-01-02	78.0	79.0	78.5	0.707	1.27
Trichloroethene	G95-13-SS-01	G95-13-SS-01	93.0	90.0	91.5	2.12	3.28
Trichloroethene	G95-SE-MW-02-02	G95-SE-MW-02-02	102	103	103	0.707	0.976
Trichloroethene	G95-SE-SB-01-02	G95-SE-SB-01-02	68.0	70.0	69.0	1.41	2.90
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate							
1,2,4-Trichlorobenzene	LCS954966	LCSD954966	82.0	99.0	90.5	12.0	18.8

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
1,2,4-Trichlorobenzene	LCS955560	LCSD955560	103	111	107	5.66	7.48
1,2-Dichlorobenzene	LCS954966	LCSD954966	79.0	95.0	87.0	11.3	18.4
1,2-Dichlorobenzene	LCS955560	LCSD955560	102	107	105	3.54	4.78
1,3-Dichlorobenzene	LCS954966	LCSD954966	78.0	94.0	86.0	11.3	18.6
1,3-Dichlorobenzene	LCS955560	LCSD955560	100	106	103	4.24	5.83
1,4-Dichlorobenzene	LCS954966	LCSD954966	78.0	94.0	86.0	11.3	18.6
1,4-Dichlorobenzene	LCS955560	LCSD955560	101	108	105	4.95	6.70
2,4,5-Trichlorophenol	LCS954966	LCSD954966	84.0	101	92.5	12.0	18.4
2,4,5-Trichlorophenol	LCS955560	LCSD955560	115	124	120	6.36	7.53
2,4,6-Trichlorophenol	LCS954966	LCSD954966	81.0	98.0	89.5	12.0	19.0
2,4,6-Trichlorophenol	LCS955560	LCSD955560	107	118	113	7.78	9.78
2,4-Dichlorophenol	LCS954966	LCSD954966	78.0	98.0	88.0	14.1	22.7
2,4-Dichlorophenol	LCS955560	LCSD955560	110	110	110	0.00	0.00
2,4-Dimethylphenol	LCS954966	LCSD954966	53.0	67.0	60.0	9.90	23.3
2,4-Dimethylphenol	LCS955560	LCSD955560	79.0	80.0	79.5	0.707	1.26
2,4-Dinitrophenol	LCS954966	LCSD954966	78.0	99.0	88.5	14.8	23.7
2,4-Dinitrophenol	LCS955560	LCSD955560	141	157	149	11.3	10.7
2,4-Dinitrotoluene	LCS954966	LCSD954966	93.0	108	101	10.6	14.9
2,4-Dinitrotoluene	LCS955560	LCSD955560	119	134	127	10.6	11.9
2,6-Dinitrotoluene	LCS954966	LCSD954966	92.0	106	99.0	9.90	14.1
2,6-Dinitrotoluene	LCS955560	LCSD955560	108	123	116	10.6	13.0
2-Chloronaphthalene	LCS954966	LCSD954966	86.0	101	93.5	10.6	16.0
2-Chloronaphthalene	LCS955560	LCSD955560	101	111	106	7.07	9.43
2-Chlorophenol	LCS954966	LCSD954966	75.0	93.0	84.0	12.7	21.4
2-Chlorophenol	LCS955560	LCSD955560	105	107	106	1.41	1.89
2-Methylnaphthalene	LCS954966	LCSD954966	87.0	102	94.5	10.6	15.9
2-Methylnaphthalene	LCS955560	LCSD955560	106	109	108	2.12	2.79

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
2-Methylphenol	LCS954966	LCSD954966	74.0	92.0	83.0	12.7	21.7
2-Methylphenol	LCS955560	LCSD955560	99.0	105	102	4.24	5.88
2-Nitroaniline	LCS954966	LCSD954966	63.0	104	83.5	29.0	49.1
2-Nitroaniline	LCS955560	LCSD955560	111	125	118	9.90	11.9
2-Nitrophenol	LCS954966	LCSD954966	80.0	101	90.5	14.8	23.2
2-Nitrophenol	LCS955560	LCSD955560	114	121	118	4.95	5.96
3,3'-Dichlorobenzidine	LCS954966	LCSD954966	77.0	90.0	83.5	9.19	15.6
3,3'-Dichlorobenzidine	LCS955560	LCSD955560	99.0	107	103	5.66	7.77
3-Nitroaniline	LCS954966	LCSD954966	86.0	100	93.0	9.90	15.1
3-Nitroaniline	LCS955560	LCSD955560	108	120	114	8.49	10.5
4,6-Dinitro-2-methylphenol	LCS954966	LCSD954966	91.0	110	101	13.4	18.9
4,6-Dinitro-2-methylphenol	LCS955560	LCSD955560	158	163	161	3.54	3.12
4-Bromophenyl phenyl ether	LCS954966	LCSD954966	92.0	103	97.5	7.78	11.3
4-Bromophenyl phenyl ether	LCS955560	LCSD955560	106	116	111	7.07	9.01
4-Chloro-3-methylphenol	LCS954966	LCSD954966	80.0	98.0	89.0	12.7	20.2
4-Chloro-3-methylphenol	LCS955560	LCSD955560	102	108	105	4.24	5.71
4-Chlorophenyl phenyl ether	LCS954966	LCSD954966	90.0	103	96.5	9.19	13.5
4-Chlorophenyl phenyl ether	LCS955560	LCSD955560	109	122	116	9.19	11.3
4-Methylphenol/3-Methylphenol	LCS954966	LCSD954966	69.0	85.0	77.0	11.3	20.8
4-Methylphenol/3-Methylphenol	LCS955560	LCSD955560	99.0	100	99.5	0.707	1.01
4-Nitroaniline	LCS954966	LCSD954966	75.0	89.0	82.0	9.90	17.1
4-Nitroaniline	LCS955560	LCSD955560	95.0	108	102	9.19	12.8
4-Nitrophenol	LCS954966	LCSD954966	73.0	90.0	81.5	12.0	20.9
4-Nitrophenol	LCS955560	LCSD955560	92.0	104	98.0	8.49	12.2
Acenaphthene	LCS954966	LCSD954966	87.0	101	94.0	9.90	14.9
Acenaphthene	LCS955560	LCSD955560	105	113	109	5.66	7.34
Acenaphthylene	LCS954966	LCSD954966	86.0	100	93.0	9.90	15.1

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Acenaphthylene	LCS955560	LCSD955560	105	115	110	7.07	9.09
Anthracene	LCS954966	LCSD954966	89.0	102	95.5	9.19	13.6
Anthracene	LCS955560	LCSD955560	106	110	108	2.83	3.70
Benzo(a)anthracene	LCS954966	LCSD954966	90.0	104	97.0	9.90	14.4
Benzo(a)anthracene	LCS955560	LCSD955560	113	116	115	2.12	2.62
Benzo(a)pyrene	LCS954966	LCSD954966	86.0	99.0	92.5	9.19	14.1
Benzo(a)pyrene	LCS955560	LCSD955560	103	113	108	7.07	9.26
Benzo(b)fluoranthene	LCS954966	LCSD954966	79.0	97.0	88.0	12.7	20.5
Benzo(b)fluoranthene	LCS955560	LCSD955560	100	93.0	96.5	4.95	7.25
Benzo(g,h,i)perylene	LCS954966	LCSD954966	92.0	105	98.5	9.19	13.2
Benzo(g,h,i)perylene	LCS955560	LCSD955560	108	118	113	7.07	8.85
Benzo(k)fluoranthene	LCS954966	LCSD954966	87.0	93.0	90.0	4.24	6.67
Benzo(k)fluoranthene	LCS955560	LCSD955560	95.0	115	105	14.1	19.0
Benzoic acid	LCS954966	LCSD954966	61.0	61.0	61.0	0.00	0.00
Benzoic acid	LCS955560	LCSD955560	93.0	109	101	11.3	15.8
Benzyl alcohol	LCS954966	LCSD954966	80.0	98.0	89.0	12.7	20.2
Benzyl alcohol	LCS955560	LCSD955560	100	104	102	2.83	3.92
Butylbenzylphthalate	LCS954966	LCSD954966	90.0	103	96.5	9.19	13.5
Butylbenzylphthalate	LCS955560	LCSD955560	104	112	108	5.66	7.41
Chrysene	LCS954966	LCSD954966	91.0	105	98.0	9.90	14.3
Chrysene	LCS955560	LCSD955560	112	114	113	1.41	1.77
Di-n-butylphthalate	LCS954966	LCSD954966	89.0	103	96.0	9.90	14.6
Di-n-butylphthalate	LCS955560	LCSD955560	104	112	108	5.66	7.41
Di-n-octylphthalate	LCS954966	LCSD954966	92.0	107	99.5	10.6	15.1
Di-n-octylphthalate	LCS955560	LCSD955560	109	119	114	7.07	8.77
Dibenz(a,h)anthracene	LCS954966	LCSD954966	93.0	104	98.5	7.78	11.2
Dibenz(a,h)anthracene	LCS955560	LCSD955560	107	118	113	7.78	9.78

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Dibenzofuran	LCS954966	LCSD954966	86.0	100	93.0	9.90	15.1
Dibenzofuran	LCS955560	LCSD955560	102	113	108	7.78	10.2
Diethylphthalate	LCS954966	LCSD954966	88.0	100	94.0	8.49	12.8
Diethylphthalate	LCS955560	LCSD955560	103	113	108	7.07	9.26
Dimethylphthalate	LCS954966	LCSD954966	93.0	107	100	9.90	14.0
Dimethylphthalate	LCS955560	LCSD955560	109	123	116	9.90	12.1
Diphenylamine (N-Nitrosodiphenylamine)	LCS954966	LCSD954966	76.0	87.0	81.5	7.78	13.5
Diphenylamine (N-Nitrosodiphenylamine)	LCS955560	LCSD955560	93.0	96.0	94.5	2.12	3.17
Fluoranthene	LCS954966	LCSD954966	91.0	104	97.5	9.19	13.3
Fluoranthene	LCS955560	LCSD955560	108	112	110	2.83	3.64
Fluorene	LCS954966	LCSD954966	88.0	101	94.5	9.19	13.8
Fluorene	LCS955560	LCSD955560	105	114	110	6.36	8.22
Hexachlorobenzene	LCS954966	LCSD954966	91.0	104	97.5	9.19	13.3
Hexachlorobenzene	LCS955560	LCSD955560	108	113	111	3.54	4.52
Hexachlorobutadiene	LCS954966	LCSD954966	82.0	99.0	90.5	12.0	18.8
Hexachlorobutadiene	LCS955560	LCSD955560	105	105	105	0.00	0.00
Hexachlorocyclopentadiene	LCS954966	LCSD954966	20.0	31.0	25.5	7.78	43.1
Hexachlorocyclopentadiene	LCS955560	LCSD955560	73.0	90.0	81.5	12.0	20.9
Hexachloroethane	LCS954966	LCSD954966	80.0	95.0	87.5	10.6	17.1
Hexachloroethane	LCS955560	LCSD955560	110	111	111	0.707	0.905
Indeno(1,2,3-cd)pyrene	LCS954966	LCSD954966	92.0	105	98.5	9.19	13.2
Indeno(1,2,3-cd)pyrene	LCS955560	LCSD955560	108	116	112	5.66	7.14
Isophorone	LCS954966	LCSD954966	86.0	101	93.5	10.6	16.0
Isophorone	LCS955560	LCSD955560	102	107	105	3.54	4.78
N-Nitroso-di-n-propylamine	LCS954966	LCSD954966	86.0	100	93.0	9.90	15.1
N-Nitroso-di-n-propylamine	LCS955560	LCSD955560	101	109	105	5.66	7.62
Naphthalene	LCS954966	LCSD954966	83.0	100	91.5	12.0	18.6

TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Naphthalene	LCS955560	LCSD955560	101	106	104	3.54	4.83
Nitrobenzene	LCS954966	LCSD954966	83.0	103	93.0	14.1	21.5
Nitrobenzene	LCS955560	LCSD955560	107	111	109	2.83	3.67
Pentachlorophenol	LCS954966	LCSD954966	83.0	99.0	91.0	11.3	17.6
Pentachlorophenol	LCS955560	LCSD955560	122	125	124	2.12	2.43
Phenanthrene	LCS954966	LCSD954966	90.0	104	97.0	9.90	14.4
Phenanthrene	LCS955560	LCSD955560	105	112	109	4.95	6.45
Phenol	LCS954966	LCSD954966	72.0	90.0	81.0	12.7	22.2
Phenol	LCS955560	LCSD955560	100	103	102	2.12	2.96
Pyrene	LCS954966	LCSD954966	93.0	107	100	9.90	14.0
Pyrene	LCS955560	LCSD955560	107	112	110	3.54	4.57
bis(2-Chloroethoxy)methane	LCS954966	LCSD954966	88.0	102	95.0	9.90	14.7
bis(2-Chloroethoxy)methane	LCS955560	LCSD955560	102	107	105	3.54	4.78
bis(2-Chloroethyl)ether	LCS954966	LCSD954966	82.0	101	91.5	13.4	20.8
bis(2-Chloroethyl)ether	LCS955560	LCSD955560	101	104	103	2.12	2.93
bis(2-Chloroisopropyl)ether	LCS954966	LCSD954966	72.0	87.0	79.5	10.6	18.9
bis(2-Chloroisopropyl)ether	LCS955560	LCSD955560	96.0	100	98.0	2.83	4.08
bis(2-Ethylhexyl)phthalate	LCS954966	LCSD954966	93.0	106	99.5	9.19	13.1
bis(2-Ethylhexyl)phthalate	LCS955560	LCSD955560	114	130	122	11.3	13.1
p-Chloroaniline	LCS954966	LCSD954966	76.0	92.0	84.0	11.3	19.0
p-Chloroaniline	LCS955560	LCSD955560	96.0	104	100	5.66	8.00
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Matrix Spike Duplicate							
1,2,4-Trichlorobenzene	G95-SE-MW-02-02	G95-SE-MW-02-02	104	96.0	100	5.66	8.00

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TABLE D-10 DETAILED LISTING OF SOLID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Matrix Spike Duplicate , cont.							
1,4-Dichlorobenzene	G95-SE-MW-02-02	G95-SE-MW-02-02	99.0	91.0	95.0	5.66	8.42
2,4-Dinitrotoluene	G95-SE-MW-02-02	G95-SE-MW-02-02	110	104	107	4.24	5.61
2-Chlorophenol	G95-13-SS-01	G95-13-SS-01	89.0	93.0	91.0	2.83	4.40
2-Chlorophenol	G95-SE-MW-02-02	G95-SE-MW-02-02	98.0	86.0	92.0	8.49	13.0
4-Chloro-3-methylphenol	G95-13-SS-01	G95-13-SS-01	93.0	95.0	94.0	1.41	2.13
4-Chloro-3-methylphenol	G95-SE-MW-02-02	G95-SE-MW-02-02	96.0	89.0	92.5	4.95	7.57
4-Nitrophenol	G95-13-SS-01	G95-13-SS-01	80.0	84.0	82.0	2.83	4.88
4-Nitrophenol	G95-SE-MW-02-02	G95-SE-MW-02-02	84.0	78.0	81.0	4.24	7.41
Acenaphthene	G95-SE-MW-02-02	G95-SE-MW-02-02	102	96.0	99.0	4.24	6.06
N-Nitroso-di-n-propylamine	G95-SE-MW-02-02	G95-SE-MW-02-02	108	99.0	104	6.36	8.70
Pentachlorophenol	G95-13-SS-01	G95-13-SS-01	99.0	104	102	3.54	4.93
Pentachlorophenol	G95-SE-MW-02-02	G95-SE-MW-02-02	110	98.0	104	8.49	11.5
Phenol	G95-13-SS-01	G95-13-SS-01	80.0	83.0	81.5	2.12	3.68
Phenol	G95-SE-MW-02-02	G95-SE-MW-02-02	85.0	76.0	80.5	6.36	11.2
Pyrene	G95-SE-MW-02-02	G95-SE-MW-02-02	104	100	102	2.83	3.92

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TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = AK102 - Diesel Range Organics							
Type of Duplicate : Laboratory Control Duplicate							
Diesel	LCS	LCSD	96.0	108	102	8.49	11.8
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate							
Aluminum	LCS954941	LCSD954941	91.0	92.0	91.5	0.707	1.09
Aluminum	LCS954953	LCSD954953	94.0	96.0	95.0	1.41	2.11
Aluminum	LCS955543	LCSD955543	94.0	95.0	94.5	0.707	1.06
Aluminum	LCS955571	LCSD955571	94.0	94.0	94.0	0.00	0.00
Antimony	LCS954941	LCSD954941	111	112	112	0.707	0.897
Antimony	LCS954953	LCSD954953	116	109	113	4.95	6.22
Antimony	LCS955543	LCSD955543	98.0	111	105	9.19	12.4
Antimony	LCS955571	LCSD955571	106	103	105	2.12	2.87
Arsenic	LCS954941	LCSD954941	85.0	99.0	92.0	9.90	15.2
Arsenic	LCS954953	LCSD954953	101	85.0	93.0	11.3	17.2
Arsenic	LCS955543	LCSD955543	99.0	96.0	97.5	2.12	3.08
Arsenic	LCS955571	LCSD955571	94.0	94.0	94.0	0.00	0.00
Barium	LCS954941	LCSD954941	92.0	93.0	92.5	0.707	1.08
Barium	LCS954953	LCSD954953	94.0	96.0	95.0	1.41	2.11
Barium	LCS955543	LCSD955543	94.0	95.0	94.5	0.707	1.06
Barium	LCS955571	LCSD955571	94.0	95.0	94.5	0.707	1.06
Beryllium	LCS954941	LCSD954941	92.0	92.0	92.0	0.00	0.00
Beryllium	LCS954953	LCSD954953	102	104	103	1.41	1.94
Beryllium	LCS955543	LCSD955543	103	103	103	0.00	0.00
Beryllium	LCS955571	LCSD955571	103	105	104	1.41	1.92
Cadmium	LCS954941	LCSD954941	85.0	85.0	85.0	0.00	0.00

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TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Cadmium	LCS954953	LCSD954953	90.0	89.0	89.5	0.707	1.12
Cadmium	LCS955543	LCSD955543	92.0	90.0	91.0	1.41	2.20
Cadmium	LCS955571	LCSD955571	90.0	92.0	91.0	1.41	2.20
Calcium	LCS954941	LCSD954941	92.0	93.0	92.5	0.707	1.08
Calcium	LCS954953	LCSD954953	94.0	97.0	95.5	2.12	3.14
Calcium	LCS955543	LCSD955543	96.0	97.0	96.5	0.707	1.04
Calcium	LCS955571	LCSD955571	95.0	97.0	96.0	1.41	2.08
Chromium	LCS954941	LCSD954941	90.0	90.0	90.0	0.00	0.00
Chromium	LCS954953	LCSD954953	93.0	94.0	93.5	0.707	1.07
Chromium	LCS955543	LCSD955543	94.0	94.0	94.0	0.00	0.00
Chromium	LCS955571	LCSD955571	93.0	95.0	94.0	1.41	2.13
Cobalt	LCS954941	LCSD954941	87.0	87.0	87.0	0.00	0.00
Cobalt	LCS954953	LCSD954953	90.0	94.0	92.0	2.83	4.35
Cobalt	LCS955543	LCSD955543	94.0	93.0	93.5	0.707	1.07
Cobalt	LCS955571	LCSD955571	92.0	94.0	93.0	1.41	2.15
Copper	LCS954941	LCSD954941	91.0	91.0	91.0	0.00	0.00
Copper	LCS954953	LCSD954953	94.0	95.0	94.5	0.707	1.06
Copper	LCS955543	LCSD955543	94.0	94.0	94.0	0.00	0.00
Copper	LCS955571	LCSD955571	93.0	95.0	94.0	1.41	2.13
Iron	LCS954941	LCSD954941	91.0	92.0	91.5	0.707	1.09
Iron	LCS954953	LCSD954953	98.0	99.0	98.5	0.707	1.02
Iron	LCS955543	LCSD955543	99.0	99.0	99.0	0.00	0.00
Iron	LCS955571	LCSD955571	98.0	99.0	98.5	0.707	1.02
Lead	LCS954941	LCSD954941	82.0	87.0	84.5	3.54	5.92
Lead	LCS954953	LCSD954953	89.0	85.0	87.0	2.83	4.60
Lead	LCS955543	LCSD955543	94.0	94.0	94.0	0.00	0.00
Lead	LCS955571	LCSD955571	92.0	88.0	90.0	2.83	4.44

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TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Magnesium	LCS954941	LCSD954941	90.0	91.0	90.5	0.707	1.10
Magnesium	LCS954953	LCSD954953	95.0	95.0	95.0	0.00	0.00
Magnesium	LCS955543	LCSD955543	95.0	95.0	95.0	0.00	0.00
Magnesium	LCS955571	LCSD955571	94.0	94.0	94.0	0.00	0.00
Manganese	LCS954941	LCSD954941	90.0	91.0	90.5	0.707	1.10
Manganese	LCS954953	LCSD954953	94.0	95.0	94.5	0.707	1.06
Manganese	LCS955543	LCSD955543	94.0	95.0	94.5	0.707	1.06
Manganese	LCS955571	LCSD955571	94.0	95.0	94.5	0.707	1.06
Molybdenum	LCS954941	LCSD954941	94.0	94.0	94.0	0.00	0.00
Molybdenum	LCS954953	LCSD954953	95.0	99.0	97.0	2.83	4.12
Molybdenum	LCS955543	LCSD955543	97.0	97.0	97.0	0.00	0.00
Molybdenum	LCS955571	LCSD955571	96.0	96.0	96.0	0.00	0.00
Nickel	LCS954941	LCSD954941	87.0	91.0	89.0	2.83	4.49
Nickel	LCS954953	LCSD954953	92.0	92.0	92.0	0.00	0.00
Nickel	LCS955543	LCSD955543	91.0	91.0	91.0	0.00	0.00
Nickel	LCS955571	LCSD955571	91.0	95.0	93.0	2.83	4.30
Potassium	LCS954941	LCSD954941	87.0	88.0	87.5	0.707	1.14
Potassium	LCS954953	LCSD954953	99.0	99.0	99.0	0.00	0.00
Potassium	LCS955543	LCSD955543	100	98.0	99.0	1.41	2.02
Potassium	LCS955571	LCSD955571	97.0	99.0	98.0	1.41	2.04
Selenium	LCS954941	LCSD954941	84.0	94.0	89.0	7.07	11.2
Selenium	LCS954953	LCSD954953	80.0	87.0	83.5	4.95	8.38
Selenium	LCS955543	LCSD955543	100	86.0	93.0	9.90	15.1
Selenium	LCS955571	LCSD955571	92.0	80.0	86.0	8.49	14.0
Silver	LCS954941	LCSD954941	85.0	86.0	85.5	0.707	1.17
Silver	LCS954953	LCSD954953	90.0	91.0	90.5	0.707	1.10
Silver	LCS955543	LCSD955543	91.0	91.0	91.0	0.00	0.00

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW6010 - Metals							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Silver	LCS955571	LCSD955571	90.0	91.0	90.5	0.707	1.10
Sodium	LCS954941	LCSD954941	92.0	95.0	93.5	2.12	3.21
Sodium	LCS954953	LCSD954953	98.0	97.0	97.5	0.707	1.03
Sodium	LCS955543	LCSD955543	97.0	95.0	96.0	1.41	2.08
Sodium	LCS955571	LCSD955571	100	97.0	98.5	2.12	3.05
Thallium	LCS954941	LCSD954941	94.0	108	101	9.90	13.9
Thallium	LCS954953	LCSD954953	87.0	97.0	92.0	7.07	10.9
Thallium	LCS955543	LCSD955543	93.0	102	97.5	6.36	9.23
Thallium	LCS955571	LCSD955571	88.0	96.0	92.0	5.66	8.70
Vanadium	LCS954941	LCSD954941	91.0	92.0	91.5	0.707	1.09
Vanadium	LCS954953	LCSD954953	94.0	96.0	95.0	1.41	2.11
Vanadium	LCS955543	LCSD955543	95.0	95.0	95.0	0.00	0.00
Vanadium	LCS955571	LCSD955571	94.0	96.0	95.0	1.41	2.11
Zinc	LCS954941	LCSD954941	86.0	86.0	86.0	0.00	0.00
Zinc	LCS954953	LCSD954953	92.0	92.0	92.0	0.00	0.00
Zinc	LCS955543	LCSD955543	92.0	92.0	92.0	0.00	0.00
Zinc	LCS955571	LCSD955571	92.0	92.0	92.0	0.00	0.00
Method = SW7060 - Arsenic							
Type of Duplicate : Laboratory Control Duplicate							
Arsenic	LCS954951	LCSD954951	101	101	101	0.00	0.00
Arsenic	LCS955540	LCSD955540	98.0	96.0	97.0	1.41	2.06

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TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW7421 - Lead							
Type of Duplicate : Laboratory Control Duplicate							
Lead	LCS954951	LCSD954951	98.0	99.0	98.5	0.707	1.02
Lead	LCS955540	LCSD955540	96.0	98.0	97.0	1.41	2.06
Lead	LCS955545	LCSD955545	89.0	90.0	89.5	0.707	1.12
Lead	LCS955546	LCSD955546	101	98.0	99.5	2.12	3.02
Method = SW7740 - Selenium							
Type of Duplicate : Laboratory Control Duplicate							
Selenium	LCS954951	LCSD954951	105	110	108	3.54	4.65
Selenium	LCS955540	LCSD955540	98.0	96.0	97.0	1.41	2.06
Method = SW8080 - Organochlorine Pesticides and PCBs							
Type of Duplicate : Laboratory Control Duplicate							
4,4'-DDT	LCS954912 K	LCSD954912	104	106	105	1.41	1.90
Aldrin	LCS954912 K	LCSD954912	103	105	104	1.41	1.92
Dieldrin	LCS954912 K	LCSD954912	99.0	101	100	1.41	2.00
Endosulfan II	LCS954912 K	LCSD954912	102	103	103	0.707	0.976
Endrin	LCS954912 K	LCSD954912	101	102	102	0.707	0.985
Endrin Aldehyde	LCS954912 K	LCSD954912	50.0	35.0	42.5	10.6	35.3
Heptachlor	LCS954912 K	LCSD954912	104	106	105	1.41	1.90
Heptachlor epoxide	LCS954912 K	LCSD954912	110	111	111	0.707	0.905
PCB-1016	LCS954913	LCSD954913	96.0	97.0	96.5	0.707	1.04
PCB-1260	LCS954913	LCSD954913	96.0	98.0	97.0	1.41	2.06
alpha-BHC	LCS954912 K	LCSD954912	93.0	95.0	94.0	1.41	2.13

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8080 - Organochlorine Pesticides and PCBs							
Type of Duplicate : Laboratory Control Duplicate , cont.							
delta-BHC	LCS954912 K	LCSD954912	97.0	98.0	97.5	0.707	1.03
gamma-BHC	LCS954912 K	LCSD954912	105	107	106	1.41	1.89
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate							
1,1,1-Trichloroethane	LCS954788	LCSD954789	118	120	119	1.41	1.68
1,1,2,2-Tetrachloroethane	LCS954788	LCSD954789	94.0	103	98.5	6.36	9.14
1,1,2-Trichloroethane	LCS954788	LCSD954789	100	106	103	4.24	5.83
1,1-Dichloroethane	LCS954788	LCSD954789	106	108	107	1.41	1.87
1,1-Dichloroethene	LCS954788	LCSD954789	110	112	111	1.41	1.80
1,2-Dichloroethane	LCS954788	LCSD954789	115	120	118	3.54	4.26
1,2-Dichloropropane	LCS954788	LCSD954789	100	101	101	0.707	0.995
2-Chloroethyl vinyl ether	LCS954788	LCSD954789	84.0	96.0	90.0	8.49	13.3
2-Hexanone	LCS954788	LCSD954789	94.0	110	102	11.3	15.7
4-Methyl-2-Pentanone(MIBK)	LCS954788	LCSD954789	95.0	102	98.5	4.95	7.11
Acetone	LCS954788	LCSD954789	79.0	88.0	83.5	6.36	10.8
Benzene	LCS954788	LCSD954789	104	106	105	1.41	1.90
Bromodichloromethane	LCS954788	LCSD954789	92.0	90.0	91.0	1.41	2.20
Bromomethane	LCS954788	LCSD954789	100	96.0	98.0	2.83	4.08
Carbon disulfide	LCS954788	LCSD954789	125	125	125	0.00	0.00
Carbon tetrachloride	LCS954788	LCSD954789	90.0	86.0	88.0	2.83	4.55
Chlorobenzene	LCS954788	LCSD954789	102	105	104	2.12	2.90
Chloroethane	LCS954788	LCSD954789	102	100	101	1.41	1.98
Chloroform	LCS954788	LCSD954789	98.0	102	100	2.83	4.00
Chloromethane	LCS954788	LCSD954789	106	107	107	0.707	0.939

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8240 - Volatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Dibromochloromethane	LCS954788	LCSD954789	90.0	93.0	91.5	2.12	3.28
Ethyl benzene	LCS954788	LCSD954789	106	111	109	3.54	4.61
Methyl ethyl ketone	LCS954788	LCSD954789	104	112	108	5.66	7.41
Methylene chloride	LCS954788	LCSD954789	98.0	99.0	98.5	0.707	1.02
Styrene	LCS954788	LCSD954789	103	109	106	4.24	5.66
Tetrachloroethene	LCS954788	LCSD954789	98.0	98.0	98.0	0.00	0.00
Toluene	LCS954788	LCSD954789	104	105	105	0.707	0.957
Tribromomethane(Bromoform)	LCS954788	LCSD954789	81.0	83.0	82.0	1.41	2.44
Trichloroethene	LCS954788	LCSD954789	97.0	97.0	97.0	0.00	0.00
Vinyl acetate	LCS954788	LCSD954789	101	109	105	5.66	7.62
Vinyl chloride	LCS954788	LCSD954789	101	103	102	1.41	1.96
cis-1,3-Dichloropropene	LCS954788	LCSD954789	95.0	97.0	96.0	1.41	2.08
m&p-Xylenes	LCS954788	LCSD954789	110	114	112	2.83	3.57
o-Xylene	LCS954788	LCSD954789	111	113	112	1.41	1.79
trans-1,2-Dichloroethene	LCS954788	LCSD954789	118	116	117	1.41	1.71
trans-1,3-Dichloropropene	LCS954788	LCSD954789	96.0	102	99.0	4.24	6.06
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate							
1,2,4-Trichlorobenzene	LCS954927	LCSD954927	95.0	113	104	12.7	17.3
1,2,4-Trichlorobenzene	LCS955432	LCSD955432	106	108	107	1.41	1.87
1,2-Dichlorobenzene	LCS954927	LCSD954927	93.0	109	101	11.3	15.8
1,2-Dichlorobenzene	LCS955432	LCSD955432	96.0	102	99.0	4.24	6.06
1,3-Dichlorobenzene	LCS954927	LCSD954927	90.0	107	98.5	12.0	17.3
1,3-Dichlorobenzene	LCS955432	LCSD955432	97.0	103	100	4.24	6.00

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
1,4-Dichlorobenzene	LCS954927	LCSD954927	90.0	108	99.0	12.7	18.2
1,4-Dichlorobenzene	LCS955432	LCSD955432	95.0	102	98.5	4.95	7.11
2,4,5-Trichlorophenol	LCS954927	LCSD954927	97.0	112	105	10.6	14.4
2,4,5-Trichlorophenol	LCS955432	LCSD955432	115	115	115	0.00	0.00
2,4,6-Trichlorophenol	LCS954927	LCSD954927	99.0	112	106	9.19	12.3
2,4,6-Trichlorophenol	LCS955432	LCSD955432	113	113	113	0.00	0.00
2,4-Dichlorophenol	LCS954927	LCSD954927	91.0	108	99.5	12.0	17.1
2,4-Dichlorophenol	LCS955432	LCSD955432	111	109	110	1.41	1.82
2,4-Dimethylphenol	LCS954927	LCSD954927	49.0	51.0	50.0	1.41	4.00
2,4-Dimethylphenol	LCS955432	LCSD955432	94.0	65.0	79.5	20.5	36.5
2,4-Dinitrophenol	LCS954927	LCSD954927	119	135	127	11.3	12.6
2,4-Dinitrophenol	LCS955432	LCSD955432	131	133	132	1.41	1.52
2,4-Dinitrotoluene	LCS954927	LCSD954927	113	130	122	12.0	14.0
2,4-Dinitrotoluene	LCS955432	LCSD955432	112	115	114	2.12	2.64
2,6-Dinitrotoluene	LCS954927	LCSD954927	105	120	113	10.6	13.3
2,6-Dinitrotoluene	LCS955432	LCSD955432	110	111	111	0.707	0.905
2-Chloronaphthalene	LCS954927	LCSD954927	97.0	111	104	9.90	13.5
2-Chloronaphthalene	LCS955432	LCSD955432	98.0	101	99.5	2.12	3.02
2-Chlorophenol	LCS954927	LCSD954927	90.0	105	97.5	10.6	15.4
2-Chlorophenol	LCS955432	LCSD955432	105	105	105	0.00	0.00
2-Methylnaphthalene	LCS954927	LCSD954927	99.0	110	105	7.78	10.5
2-Methylnaphthalene	LCS955432	LCSD955432	107	107	107	0.00	0.00
2-Methylphenol	LCS954927	LCSD954927	84.0	94.0	89.0	7.07	11.2
2-Methylphenol	LCS955432	LCSD955432	102	99.0	101	2.12	2.99
2-Nitroaniline	LCS954927	LCSD954927	108	117	113	6.36	8.00
2-Nitroaniline	LCS955432	LCSD955432	94.0	104	99.0	7.07	10.1
2-Nitrophenol	LCS954927	LCSD954927	102	116	109	9.90	12.8

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
2-Nitrophenol	LCS955432	LCSD955432	116	112	114	2.83	3.51
3,3'-Dichlorobenzidine	LCS954927	LCSD954927	85.0	96.0	90.5	7.78	12.2
3,3'-Dichlorobenzidine	LCS955432	LCSD955432	< 0.345	91.0	NC	NC	NC
3-Nitroaniline	LCS954927	LCSD954927	100	109	105	6.36	8.61
3-Nitroaniline	LCS955432	LCSD955432	8.50	100	54.3	64.7	169
4,6-Dinitro-2-methylphenol	LCS954927	LCSD954927	138	147	143	6.36	6.32
4,6-Dinitro-2-methylphenol	LCS955432	LCSD955432	131	132	132	0.707	0.760
4-Bromophenyl phenyl ether	LCS954927	LCSD954927	95.0	112	104	12.0	16.4
4-Bromophenyl phenyl ether	LCS955432	LCSD955432	114	114	114	0.00	0.00
4-Chloro-3-methylphenol	LCS954927	LCSD954927	92.0	99.0	95.5	4.95	7.33
4-Chloro-3-methylphenol	LCS955432	LCSD955432	108	105	107	2.12	2.82
4-Chlorophenyl phenyl ether	LCS954927	LCSD954927	104	118	111	9.90	12.6
4-Chlorophenyl phenyl ether	LCS955432	LCSD955432	110	112	111	1.41	1.80
4-Methylphenol/3-Methylphenol	LCS954927	LCSD954927	84.0	91.0	87.5	4.95	8.00
4-Methylphenol/3-Methylphenol	LCS955432	LCSD955432	94.0	91.0	92.5	2.12	3.24
4-Nitroaniline	LCS954927	LCSD954927	94.0	100	97.0	4.24	6.19
4-Nitroaniline	LCS955432	LCSD955432	14.0	98.0	56.0	59.4	150
4-Nitrophenol	LCS954927	LCSD954927	88.0	95.0	91.5	4.95	7.65
4-Nitrophenol	LCS955432	LCSD955432	79.0	82.0	80.5	2.12	3.73
Acenaphthene	LCS954927	LCSD954927	100	109	105	6.36	8.61
Acenaphthene	LCS955432	LCSD955432	100	104	102	2.83	3.92
Acenaphthylene	LCS954927	LCSD954927	97.0	106	102	6.36	8.87
Acenaphthylene	LCS955432	LCSD955432	91.0	102	96.5	7.78	11.4
Anthracene	LCS954927	LCSD954927	101	105	103	2.83	3.88
Anthracene	LCS955432	LCSD955432	103	105	104	1.41	1.92
Benzo(a)anthracene	LCS954927	LCSD954927	101	111	106	7.07	9.43
Benzo(a)anthracene	LCS955432	LCSD955432	104	109	107	3.54	4.69

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Benzo(a)pyrene	LCS954927	LCSD954927	93.0	104	98.5	7.78	11.2
Benzo(a)pyrene	LCS955432	LCSD955432	99.0	101	100	1.41	2.00
Benzo(b)fluoranthene	LCS954927	LCSD954927	88.0	103	95.5	10.6	15.7
Benzo(b)fluoranthene	LCS955432	LCSD955432	91.0	96.0	93.5	3.54	5.35
Benzo(g,h,i)perylene	LCS954927	LCSD954927	100	117	109	12.0	15.7
Benzo(g,h,i)perylene	LCS955432	LCSD955432	111	113	112	1.41	1.79
Benzo(k)fluoranthene	LCS954927	LCSD954927	115	122	119	4.95	5.91
Benzo(k)fluoranthene	LCS955432	LCSD955432	107	100	104	4.95	6.76
Benzoic acid	LCS954927	LCSD954927	107	121	114	9.90	12.3
Benzoic acid	LCS955432	LCSD955432	127	111	119	11.3	13.4
Benzyl alcohol	LCS954927	LCSD954927	95.0	106	101	7.78	10.9
Benzyl alcohol	LCS955432	LCSD955432	97.0	104	101	4.95	6.97
Butylbenzylphthalate	LCS954927	LCSD954927	102	107	105	3.54	4.78
Butylbenzylphthalate	LCS955432	LCSD955432	95.0	100	97.5	3.54	5.13
Chrysene	LCS954927	LCSD954927	101	113	107	8.49	11.2
Chrysene	LCS955432	LCSD955432	103	107	105	2.83	3.81
Di-n-butylphthalate	LCS954927	LCSD954927	103	104	104	0.707	0.966
Di-n-butylphthalate	LCS955432	LCSD955432	98.0	99.0	98.5	0.707	1.02
Di-n-octylphthalate	LCS954927	LCSD954927	109	112	111	2.12	2.71
Di-n-octylphthalate	LCS955432	LCSD955432	100	99.0	99.5	0.707	1.01
Dibenz(a,h)anthracene	LCS954927	LCSD954927	98.0	115	107	12.0	16.0
Dibenz(a,h)anthracene	LCS955432	LCSD955432	110	112	111	1.41	1.80
Dibenzofuran	LCS954927	LCSD954927	98.0	110	104	8.49	11.5
Dibenzofuran	LCS955432	LCSD955432	104	106	105	1.41	1.90
Diethylphthalate	LCS954927	LCSD954927	100	110	105	7.07	9.52
Diethylphthalate	LCS955432	LCSD955432	97.0	101	99.0	2.83	4.04
Dimethylphthalate	LCS954927	LCSD954927	106	118	112	8.49	10.7

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Dimethylphthalate	LCS955432	LCSD955432	107	110	109	2.12	2.76
Diphenylamine (N-Nitrosodiphenylamine)	LCS954927	LCSD954927	88.0	91.0	89.5	2.12	3.35
Diphenylamine (N-Nitrosodiphenylamine)	LCS955432	LCSD955432	35.0	88.0	61.5	37.5	86.2
Fluoranthene	LCS954927	LCSD954927	103	110	107	4.95	6.57
Fluoranthene	LCS955432	LCSD955432	107	109	108	1.41	1.85
Fluorene	LCS954927	LCSD954927	98.0	110	104	8.49	11.5
Fluorene	LCS955432	LCSD955432	103	106	105	2.12	2.87
Hexachlorobenzene	LCS954927	LCSD954927	94.0	111	103	12.0	16.6
Hexachlorobenzene	LCS955432	LCSD955432	113	116	115	2.12	2.62
Hexachlorobutadiene	LCS954927	LCSD954927	91.0	114	103	16.3	22.4
Hexachlorobutadiene	LCS955432	LCSD955432	106	107	107	0.707	0.939
Hexachlorocyclopentadiene	LCS954927	LCSD954927	9.40	10.0	9.70	0.424	6.19
Hexachlorocyclopentadiene	LCS955432	LCSD955432	36.0	24.0	30.0	8.49	40.0
Hexachloroethane	LCS954927	LCSD954927	97.0	114	106	12.0	16.1
Hexachloroethane	LCS955432	LCSD955432	90.0	99.0	94.5	6.36	9.52
Indeno(1,2,3-cd)pyrene	LCS954927	LCSD954927	102	117	110	10.6	13.7
Indeno(1,2,3-cd)pyrene	LCS955432	LCSD955432	110	111	111	0.707	0.905
Isophorone	LCS954927	LCSD954927	97.0	104	101	4.95	6.97
Isophorone	LCS955432	LCSD955432	105	104	105	0.707	0.957
N-Nitroso-di-n-propylamine	LCS954927	LCSD954927	96.0	104	100	5.66	8.00
N-Nitroso-di-n-propylamine	LCS955432	LCSD955432	99.0	102	101	2.12	2.99
Naphthalene	LCS954927	LCSD954927	93.0	108	101	10.6	14.9
Naphthalene	LCS955432	LCSD955432	102	104	103	1.41	1.94
Nitrobenzene	LCS954927	LCSD954927	99.0	107	103	5.66	7.77
Nitrobenzene	LCS955432	LCSD955432	101	104	103	2.12	2.93
Pentachlorophenol	LCS954927	LCSD954927	100	126	113	18.4	23.0
Pentachlorophenol	LCS955432	LCSD955432	113	115	114	1.41	1.75

Compiled: 6 October 1995

NC = Not Calculable () = Data Flag

TABLE D-11 DETAILED LISTING OF LIQUID DUPLICATE RESULTS - SOIL SAMPLES, GALENA 1995

Parameter	Sample ID	Duplicate Sample ID	Value	Duplicate Value	Mean Value	Standard Deviation	RPD (%)
Method = SW8270 - Semivolatile Organics							
Type of Duplicate : Laboratory Control Duplicate , cont.							
Phenanthrene	LCS954927	LCSD954927	99.0	107	103	5.66	7.77
Phenanthrene	LCS955432	LCSD955432	105	106	106	0.707	0.948
Phenol	LCS954927	LCSD954927	88.0	98.0	93.0	7.07	10.8
Phenol	LCS955432	LCSD955432	90.0	91.0	90.5	0.707	1.10
Pyrene	LCS954927	LCSD954927	100	108	104	5.66	7.69
Pyrene	LCS955432	LCSD955432	106	111	109	3.54	4.61
bis(2-Chloroethoxy)methane	LCS954927	LCSD954927	98.0	106	102	5.66	7.84
bis(2-Chloroethoxy)methane	LCS955432	LCSD955432	91.0	108	99.5	12.0	17.1
bis(2-Chloroethyl)ether	LCS954927	LCSD954927	98.0	111	105	9.19	12.4
bis(2-Chloroethyl)ether	LCS955432	LCSD955432	105	112	109	4.95	6.45
bis(2-Chloroisopropyl)ether	LCS954927	LCSD954927	84.0	100	92.0	11.3	17.4
bis(2-Chloroisopropyl)ether	LCS955432	LCSD955432	93.0	96.0	94.5	2.12	3.17
bis(2-Ethylhexyl)phthalate	LCS954927	LCSD954927	106	112	109	4.24	5.50
bis(2-Ethylhexyl)phthalate	LCS955432	LCSD955432	96.0	102	99.0	4.24	6.06
p-Chloroaniline	LCS954927	LCSD954927	105	114	110	6.36	8.22
p-Chloroaniline	LCS955432	LCSD955432	7.30	90.0	48.7	58.5	170

APPENDIX E.1

Field Documents (1995)

1995 Drilling Logs

DRILLING LOG

HOLE NO. SE-MW-04

1. COMPANY NAME: Radian Corporation	2. DRILLING SUBCONTRACTOR: 611th CES	SHEET 1 OF 2 SHEETS
3. PROJECT: Galena	4. LOCATION: Galena, Alaska	
5. NAME OF DRILLER: Mark Mobley	6. MANUFACTURERS DESIGNATION OF DRILL: CME	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 8.0" ID Auger; 2.0" ID Split Spoons	8. HOLE LOCATION	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 8/04/95	11. DATE COMPLETED: 8/04/95
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: 11 ft.	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 27 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 11 Ft. 8/09/95	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	SW 8240	METALS	SW 8270	SW 8080	TCLP	21. TOTAL CORE REC.
Y						NA

22. DISPOSITION OF HOLE	BACKFILL	MONITORING WELL	OTHERS (SPECIFY)	23. SIGNATURE OF INSPECTOR
Vertical	Grout			

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Silty Sand: dark yellowish brown (10YR4/2), fine grained sand (90%), silt (10%), no odor, medium plasticity, very soft, moist.	BZ/cuttings = 0/0			
	5		Sand: moderately yellow brown (10YR5/4), well sorted medium to fine sand with trace of gravel up to .75 centimeters, rounded, no odor, non-plastic, loose, moist.				
▼	10		Sand: moderately yellow brown (10YR5/4), well sorted medium sand with trace of gravel up to .75 centimeters, rounded, no odor, non-plastic, loose, moist. (SP)	BZ/cuttings = 0/0; Blow counts: 1,2,3,7; Recovery = 100%		G95-SE-MW-04-01	
	15		Sand: moderately yellow brown (10YR5/4), well sorted medium sand with trace of gravel up to .75 centimeters, rounded, no odor, non-plastic, loose, moist. (SP)	Ground water encountered at 11 feet. BZ/cuttings = 0/0			
	20		Sand: moderately yellow brown (10YR5/4), well sorted, medium to coarse sand, with some gravel, sand (95%), gravel (5%), rounded, no odor, non-plastic, loose, moist to wet. (SP)	BZ/cuttings = 0/0			

0 5 10 15 20 25

PROJECT: Galena HOLE NO.: SE-MW-04

DRILLING LOG

HOLE NO. SE-MW-04

1. COMPANY NAME	2. INSPECTOR	SHEET 2
Radian Corporation		OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Sand: moderately yellow brown (10YR5/4), well sorted, medium to coarse sand, with some gravel, sand (95%), gravel (5%), rounded, no odor, non-plastic, loose, moist to wet. (SP)	BZ/cuttings = 0/0			
			Bottom of borehole.				

25 30 35 40 45 50 55 60 65 70

PROJECT: Galena HOLE NO.: SE-MW-04

DRILLING LOG

HOLE NO. SE-MW-01

1. COMPANY NAME: Radian Corporation	2. DRILLING SUBCONTRACTOR: 611th CES	SHEET 1 OF 2 SHEETS
3. PROJECT: Galena	4. LOCATION: Galena, Alaska	
5. NAME OF DRILLER: Mark Mobley	6. MANUFACTURERS DESIGNATION OF DRILL: CME	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 8.0" ID Auger; 2.0" ID Split Spoons	8. HOLE LOCATION	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 8/02/95	11. DATE COMPLETED
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: 16 ft.	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 14.4 ft 10 minutes	
14. TOTAL DEPTH OF HOLE: 28.6 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): 14.4 ft. 30 minutes	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	SW 8240	METALS	SW 8270	SW 8080	TCLP	21. TOTAL CORE REC.
1	AK101	AK102	Y	Y		NA

22. DISPOSITION OF HOLE	BACKFILL	MONITORING WELL	OTHERS (SPECIFY)	23. SIGNATURE OF INSPECTOR
Vertical	Grout			

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Silty Clay: greenish black (5GY2/1), silt (35%), clay (65%), fuel odor, medium plasticity, very soft, moist. (CL)	BZ/cuttings = 0/0			
	5		Silty Sand: greenish black (5GY2/1), fine grained sand (70%), silt (30%), fuel odor, low plasticity, very soft, moist. (SM)	BZ/cuttings = 0/8; Blow counts: 1,1,2,1; Recovery = 100%		G95-SE-MW-01-02	
			Silty Sand: greenish black (5GY2/1), fine grained sand (70%), silt (30%), fuel odor, low plasticity, very soft, moist. (SM)	BZ/cuttings = 0/8			
	10		Silty Clay: olive gray (5Y4/1), clay (65%), silt (35%), fuel odor, medium plasticity, very soft, moist. (CL)	BZ/cuttings = 0/38			
				BZ/cuttings = 3.4/150			
	15			BZ/cuttings = 1.3/250			
▼			Sand: olive gray (5Y4/1), with little clay (15%), sand (85%), sand up to .5 milimeters, fuel odor, low plasticity, very soft, moist. (SC)	BZ/cuttings = 0/135			
				Ground water encountered at 16 feet.			
	20		Silty Sand: olive gray (5Y4/1), sand (80%), silt (20%), maximum .5 milimeters, fuel odor, medium plasticity, very soft, wet. (SM)	BZ/cuttings = 1.3/40			

0 5 10 15 20 25

PROJECT: Galena HOLE NO.: SE-MW-01

DRILLING LOG

HOLE NO. SE-MW-01

1. COMPANY NAME: Radian Corporation

2. INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Gravelly Sand: olive gray (5Y3/2), with silt, maximum 2.5 centimeters, subrounded, fuel odor, low to no plasticity, very soft to loose, wet. (SM)	BZ/cuttings = 0/30			
	30		Bottom of borehole.				

PROJECT: Galena

HOLE NO.: SE-MW-01

DRILLING LOG

HOLE NO. SE-MW-02

1. COMPANY NAME: Radian Corporation	2. DRILLING SUBCONTRACTOR: 611th CES	SHEET 1 OF 2 SHEETS
3. PROJECT: Galena	4. LOCATION: Galena, Alaska	
5. NAME OF DRILLER: Mark Mobley	6. MANUFACTURERS DESIGNATION OF DRILL: CME	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 8.0" ID Auger; 2.0" ID Split Spoons	8. HOLE LOCATION	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 8/03/95	11. DATE COMPLETED: 8/03/95
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: 13 ft.	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 11.5	
14. TOTAL DEPTH OF HOLE: 27 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	SW 8240	METALS	SW 8270	SW 8080	TCLP	21. TOTAL CORE REC.
1						NA

22. DISPOSITION OF HOLE	BACKFILL	MONITORING WELL	OTHERS (SPECIFY)	23. SIGNATURE OF INSPECTOR
Vertical	Grout			

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Clayey Sand: dark yellowish brown (10YR4/2), with organic material, no odor, low plasticity, very soft, moist. (SC)	BZ/cuttings = 0/0			
	5		Clayey Silt: dark yellowish brown (10YR4/2), water encounterd - perched lense - only a few feet thick, silt (70%), clay (30%), no odor, medium to high plasticity, very soft, wet. (ML)	BZ/cuttings = 0/0			
▼	10		Sand: dark yellowish brown (10YR4/2), well sorted medium sand, up to .5 milimeters, subrounded, slight fuel odor, loose, moist. (SP)	BZ/cuttings = 0/0; Blow Counts: 1,2,2,2; Recovery = 100%		G95-SE-MW-02-02	
	15		Sand: dark yellowish brown (10YR4/2), well sorted medium sand, up to .5 milimeters, subrounded, no odor, loose, moist. (SP)	Ground water encountered at 13 feet. BZ/cuttings = 0/0			
	20		Sand: yellowish brown (10YR4/2), well sorted medium sand with some coarse sand and a trace of gravel, sand (95%), coarse sand (5%), up to 1 centimeter, subangular, no odor, loose, wet. (SP)	BZ/cuttings = 0/0			

0 5 10 15 20 25

PROJECT: Galena HOLE NO.: SE-MW-02

DRILLING LOG

HOLE NO. SE-MW-02

1. COMPANY NAME: Radian Corporation

2. INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Sand: yellowish brown (10YR4/2), well sorted medium sand with some coarse sand and a trace of gravel, sand (90%), gravel (10%), up to 2 centimeters, subangular, no odor, loose, wet. (SP)	BZ/cuttings = 0/0			
			Bottom of borehole.				

25 30 35 40 45 50 55 60 65 70

PROJECT: Galena

HOLE NO.: SE-MW-02

DRILLING LOG

HOLE NO. SE-MW-03

1. COMPANY NAME: Radian Corporation	2. DRILLING SUBCONTRACTOR: 611th CES	SHEET 1 OF 2 SHEETS
3. PROJECT: Galena	4. LOCATION: Galena, Alaska	
5. NAME OF DRILLER: Mark Mobley	6. MANUFACTURERS DESIGNATION OF DRILL: CME	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 8.0" ID Auger; 2.0" ID Split Spoons	8. HOLE LOCATION	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 8/03/95	11. DATE COMPLETED: 8/03/95
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: 14 ft.	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 27 ft.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	SW 8240	METALS	SW 8270	SW 8080	TCLP	21. TOTAL CORE REC.: NA

22. DISPOSITION OF HOLE	BACKFILL	MONITORING WELL	OTHERS (SPECIFY)	23. SIGNATURE OF INSPECTOR
Vertical	Grout			

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
	0		Silt: dark yellowish brown (10YR4/2), with clay, silt (95%), clay (5%), some organic material - grass and roots, no odor, medium plasticity, very soft, moist to dry. (ML)	BZ/cuttings = 0/0			
			Silt: dark yellowish brown (10YR4/2), with clay, silt (80%), clay (20%), some organic material - grass and roots, no odor, high plasticity, very soft, moist. (ML)	BZ/cuttings = 0/0			
	5		Sand: dark yellowish brown (10YR4/2), with lenses of clay, sand (95%), clay (5%), no odor, loose, moist. (SM)	BZ/cuttings = 0/0			
	10		Sand: dark yellowish brown (10YR4/2), well sorted medium sand with some gravel up to 1.5 centimeters, sand (95%), gravel (5%), rounded, no odor, loose, moist. (SP)	BZ/cuttings = 0/0; Blow Counts: 1,1,1,1; Recovery = 100%		G95-SE-MW-03-02	
▼			Sand: dark yellowish brown (10YR4/2), well sorted medium sand with some gravel up to 1.5 centimeters, sand (95%), gravel (5%), rounded, no odor, loose, moist. (SP)	Ground water encountered at 14 feet.			
	15		Sand: dark yellowish brown (10YR4/2), well sorted medium sand with some gravel up to 2.0 centimeters; sand (95%), gravel (5%), rounded, no odor, loose, moist to wet. (SP)	BZ/cuttings = 0/0			
	20		Sand: dark yellowish brown (10YR4/2), well sorted medium sand with some gravel up to 2.0 centimeters, sand (95%), gravel (5%), rounded, no odor, loose, wet. (SP)	BZ/cuttings = 0/0			
	25						

PROJECT: Galena HOLE NO.: SE-MW-03

DRILLING LOG

HOLE NO. SE-MW-03

1. COMPANY NAME: Radian Corporation

2. INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	GRAPHIC LOG c	DESCRIPTION OF MATERIALS d	REMARKS e	HEAD-SPACE (ppm) f	ANALYTICAL SAMPLE NO. g	TYPE
			Sand: dark yellowish brown (10YR4/2), well sorted medium sand with some gravel up to 2.0 centimeters, sand (90%), gravel (10%), rounded, no odor, loose, wet. (SP)	BZ/cuttings = 0/0			
			Bottom of borehole.				

30 35 40 45 50 55 60 65 70

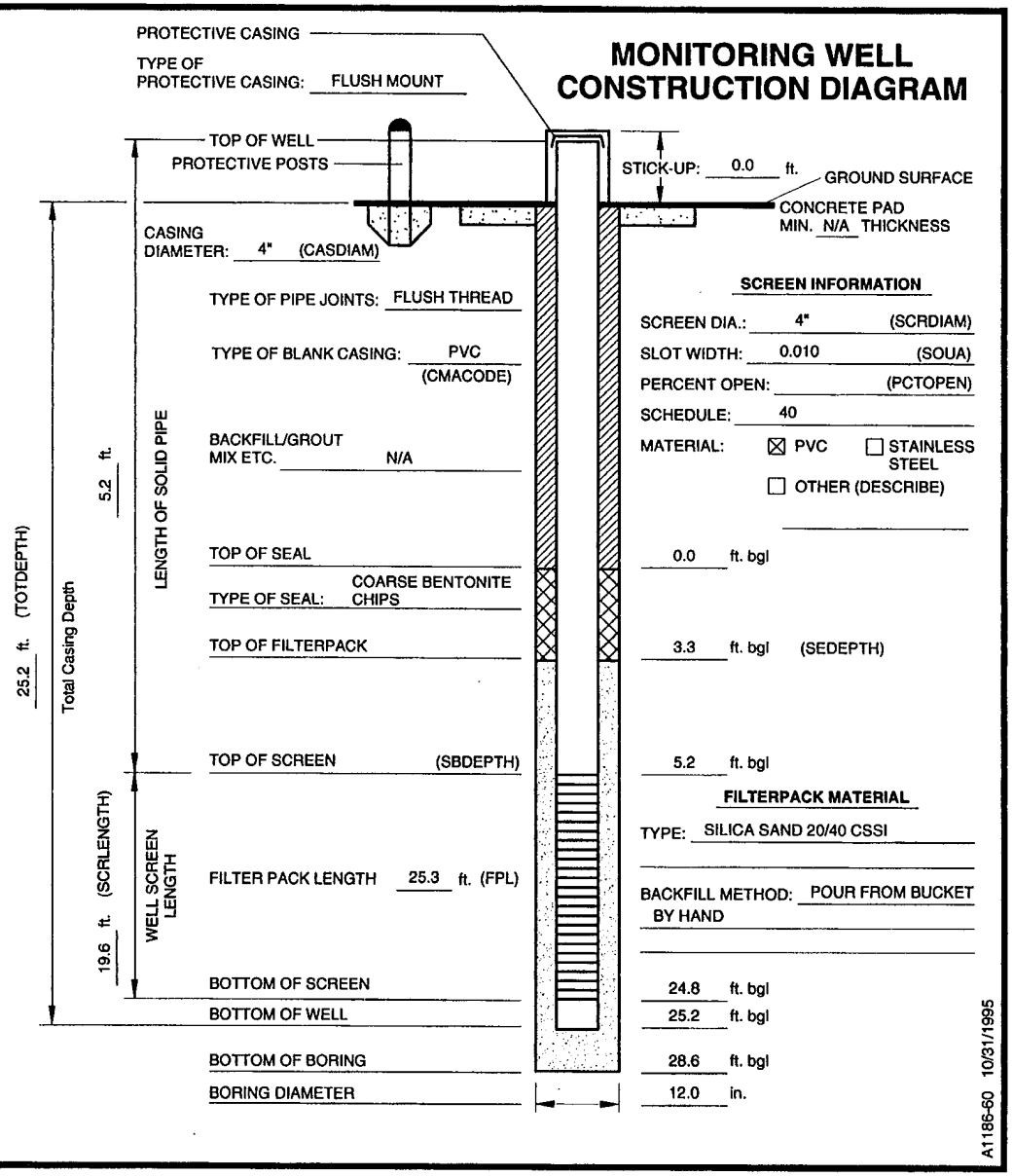
25 30 35 40 50 55 60 65 70

PROJECT: Galena

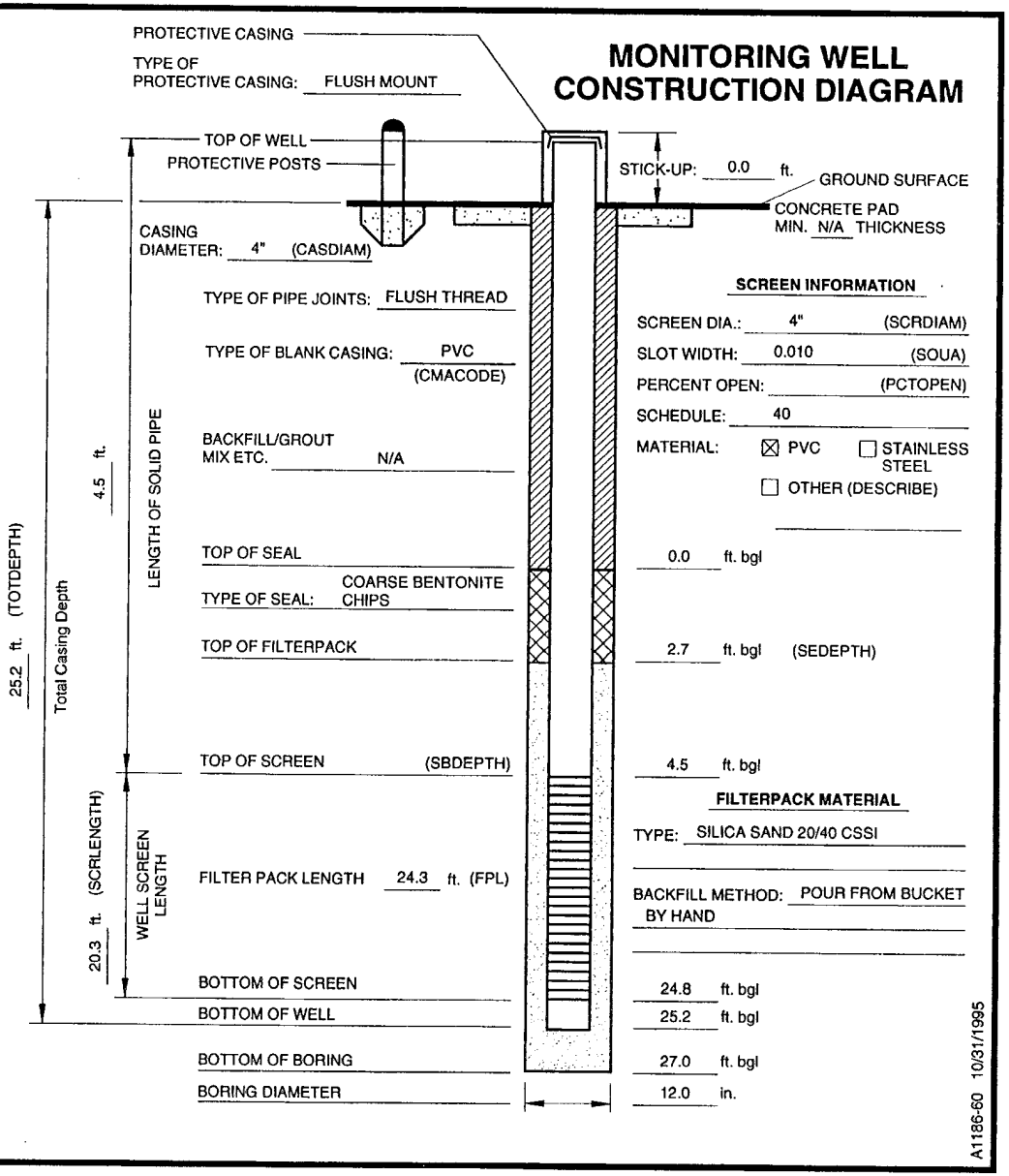
HOLE NO.: SE-MW-03

1995 Monitoring Well Construction Diagrams

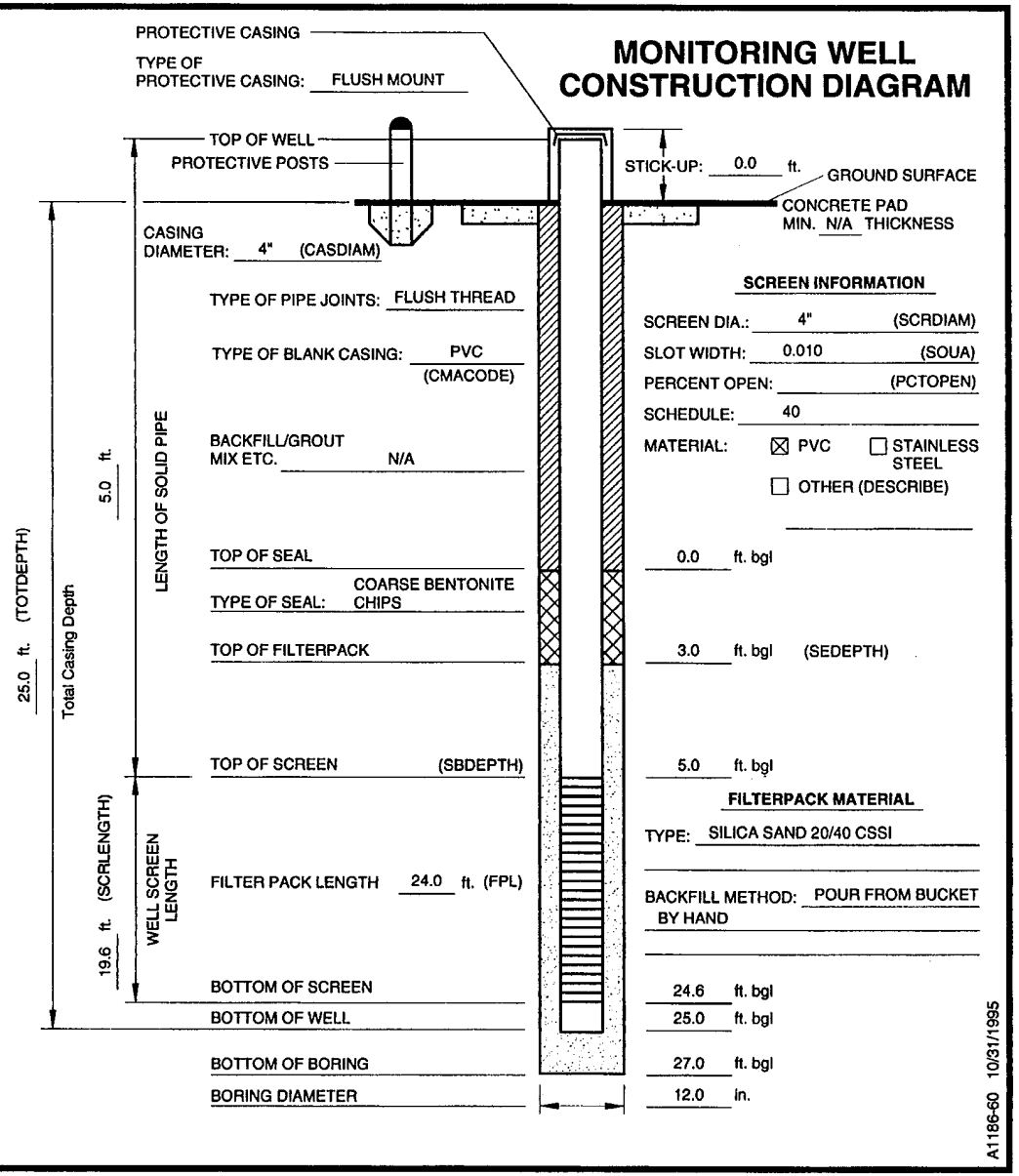
Air Force Base (VVL AFID)	Well I.D. (LOCID)	
GALNA	**SE-MW-01**	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	**MNW**	
Installation Date (INDATE)	Date Started	Date Completed
8/2/95	**8/2/95**	**8/2/95**
Location Coordinates: (NCORD) (North) **3924693**	(ECORD) (East) **1809142**	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
144.55	**GS**	
Sole Source Aquifer Code (VVL SAQCODE)		
Drilling Method	Completion Zone (VVL GZCODE)	
HSA	**W**	
Installer/Inspector	Date	
EDS	**8/2/95**	
Remarks (REMARKS)		



Air Force Base (VVL AFID)	Well I.D. (LOCID)	
GALNA	**SE-MW-02**	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	**MNW**	
Installation Date (INDATE)	Date Started	Date Completed
8/3/95	**8/3/95**	**8/3/95**
Location Coordinates: (NCORD) (North) **3924583**	(ECORD) (East) **1808171**	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
142.98	**GS**	
Sole Source Aquifer Code (VVL SAQCODE)		
Drilling Method	Completion Zone (VVL GZCODE)	
HSA	**W**	
Installer/Inspector	Date	
EDS	**8/3/95**	
Remarks (REMARKS)		

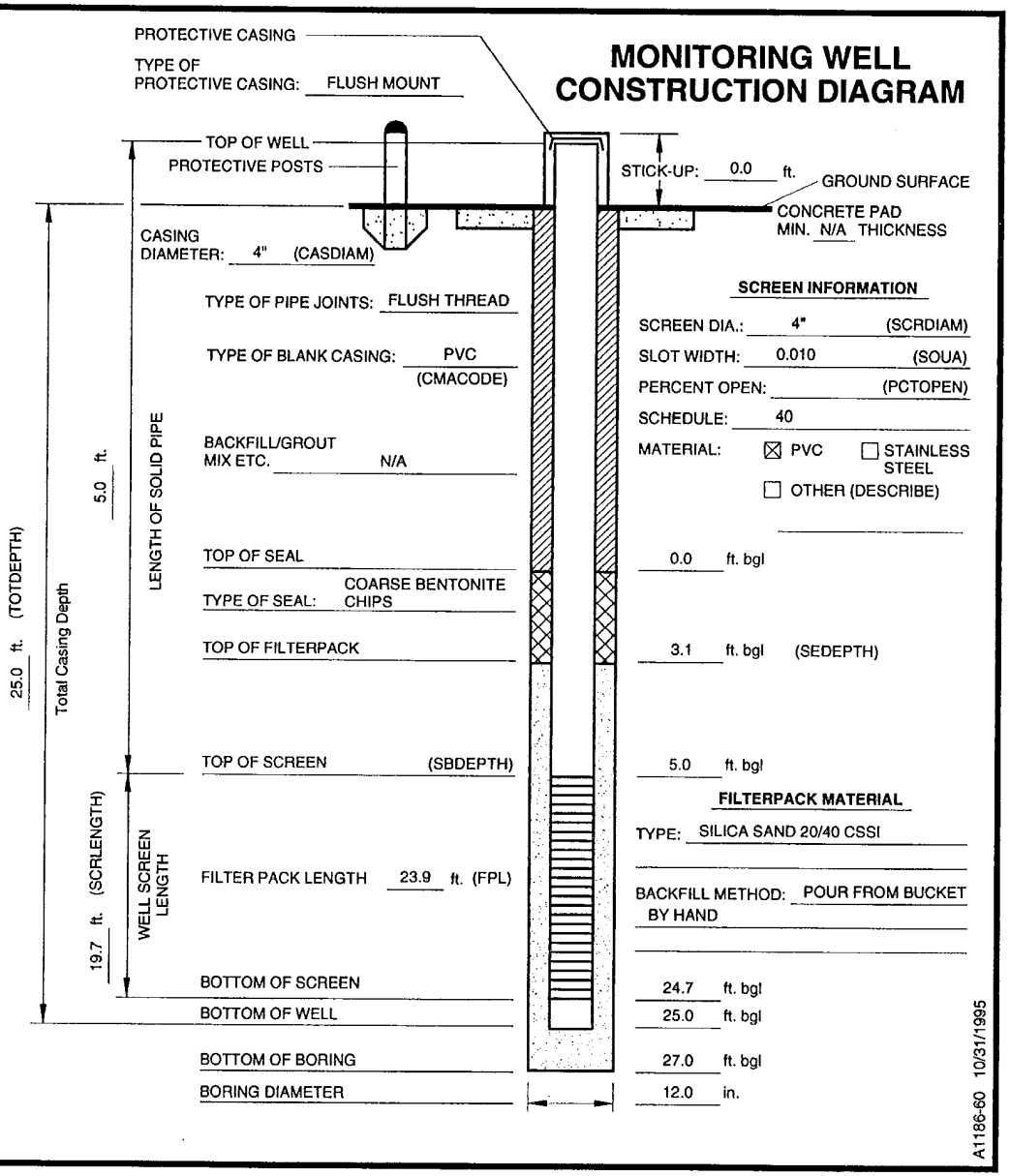


Air Force Base (VVL AFID)	Well I.D. (LOCID)	
GALNA	**SE-MW-03**	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	**MNW**	
Installation Date (INDATE)	Date Started	Date Completed
8/3/95	**8/3/95**	**8/3/95**
Location Coordinates: (NCORD) (North) **3924307**	(ECORD) (East) **1808077**	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
142.92	**GS**	
Sole Source Aquifer Code (VVL SAQCODE)		
Drilling Method	Completion Zone (VVL GZCODE)	
HSA	**W**	
Installer/Inspector	Date	
EDS	**8/3/95**	
Remarks (REMARKS)		



Air Force Base (VVL AFID)	Well I.D. (LOCID)	
GALNA	**SE-MW-04**	
Well Owner (VVL WELCODE)	Well Type (WL WTCODE)	
USAF	**MNW**	
Installation Date (INDATE)	Date Started	Date Completed
8/4/95	**8/4/95**	**8/4/95**
Location Coordinates: (NCORD) (North) **3924510**	(ECORD) (East) **1807898**	
Elevation Top of Casing (MPELV)	Completion Method (VVL WCMCODE)	
141.40	**GS**	
Sole Source Aquifer Code (VVL SAQCODE)		
Drilling Method	Completion Zone (VVL GZCODE)	
HSA	**W**	
Installer/Inspector	Date	
EDS	**8/4/95**	
Remarks (REMARKS)		

MONITORING WELL CONSTRUCTION DIAGRAM



1995 Well Development Forms

WELL DEVELOPMENT FORM

Project: Galena Airport
Client: AFCEE

Well ID: SE-MW-01
Date: 8-7-95
Time: 17:30

Location: Southeast Runway
Weather: Cloudy ~55°F
Developers: EDS/DRP

Comments:

Field Measurements:

OVM Reading (ppm): 94 ppm
Water Depth (ft btoc): 14.22
Product Thickness (ft): 0.00
Borehole Volume (gal): ~~3~~ 24.5

Product Depth (ft btoc): ~~0.00~~ N/A
Well Depth (ft btoc): 25.35
Saturated Thickness (ft): 11.13'

Development Method:

Time	Cum. Vol. (gal)	Temp. (deg ~~C~~ F)	pH (pH units)	Conductivity ~~(umhos/cm)~~ uS	Comments:
17:45	0	~~35~~	5.86	~~20~~ NA	Water is a more gray color than what we've seen previously
17:47	10	~~36~~	6.83	~~20~~ NA	
1800	30	35	6.68	1540	
1812	50	34	6.77	1570	
1825	70	34	6.74	1580	
1835	~~90~~	34	6.75	1580	
1845	110	34	6.75	1550	
1850	130	34	6.74	1570	
1855	140	34	6.78	1580	
1900	150	34	6.81	1580	Turb = 0.0 (after ~30 min)
1905	160	—	—	—	(Water very clear)

WELL DEVELOPMENT FORM

Project: Galena Airport
Client: AFCEE

Well ID: SER-MW-04
Date: 8-7-95
Time: 15:00

Location: SouthEast Runway
Weather: Cloudy ~55°F
Developers:

Comments:

Field Measurements:

OVM Reading (ppm): 0ppm
Water Depth (ft btoc): 11.90 (8/10/95)
Product Thickness (ft): —
Borehole Volume (gal): 29.6

Product Depth (ft btoc): N/A
Well Depth (ft btoc): 25.35 (8/10/95)
Saturated Thickness (ft): 13.45

Development Method: Waterra

Time	Cum. Vol. (gal)	Temp. (deg C) F	pH (pH units)	Conductivity (umhos/cm)	Comments:
15:25	0	42°F	5.73	0990	
15:32	10	37°F	6.28	980	
15.40	20	36°F	6.57	960	
15.45	30	35°F	6.55	960	
—	40	—	—	—	no reading taken
15:50	50	34	6.62	950	
15:55	70	34	6.63	950	
160 ~~15:55~~	80	34	6.63	940	
16:07	100	34	6.68	940	
16:15	120	34	6.69	940	
16 2x	140	34	6.64	930	
16 35	150	34	6.63	940	
16:47	160	34	6.64	930	turbidity >10 NTUs = 0.3 after ~30min

WELL DEVELOPMENT FORM

Page 1 of 1

Project: Galena Airport
Client: AFCEE

Well ID: SE-MW-03
Date: 8/5/95
Time: 16:00

Location: SE Runway Fuel Spill
Weather: Intermittent rain
Developers: BJC/EDS

Comments:

Field Measurements:

OVM Reading (ppm): 0
Water Depth (ft btoc): 13.20 (8/10/95)
Product Thickness (ft): —
Borehole Volume (gal): 26.5

Product Depth (ft btoc): —
Well Depth (ft btoc): 25.25
Saturated Thickness (ft): 12.05

Development Method: Waterra

Time	Cum. Vol. (gal)	Temp. (deg C)	pH (pH units)	Conductivity (umhos/cm)	Comments:
16:00	5	3°	—	—	very muddy
16:20	20	2	6.21	610	clearing slightly
16:25	30	2	6.40	610	same
16:35	40	1	6.48	580	clearing
1645	50	1	6.55	560	same
1655	60	37	6.58	540	switch to new thermometer °F
1710	70	37	6.58	550	
1715	80	37	6.63	550	much clearer - barely cloudy
1800	100	—	6.54	540	barley cloudy
1820	120	37	6.51	580	pumped hard - slightly cloudier.
1830	130	37	6.61	540	barely cloudy
1845	140	37	6.52	540	" "
1855	150	36	6.52	530	clear
1910	160	36	6.51	530	

Imhoff = 30 25

Imhoff = 0

Imhoff = 0

Imhoff = 0.1

WELL DEVELOPMENT FORM

Project: Galena Airport
Client: AFCEE

Well ID: SER-MW-07
Date: 8-7-95
Time: 10:00

Location: Southeast Runway
Weather: Cloudy, Raining ~50°F
Developers: EDS / DRP

Comments:

Field Measurements:

OVM Reading (ppm): ~~N/A~~ 0 ppm
Water Depth (ft btoc): ~~N/A~~ 13.45 (8/10/95)
Product Thickness (ft): NA
Borehole Volume (gal): ~~7.55~~ 25.19

Product Depth (ft btoc): —
Well Depth (ft btoc): 24.90
Saturated Thickness (ft): 11.45

Development Method: Waterra

Time	Cum. Vol. (gal)	Temp. (deg C)	pH (pH units)	Conductivity (umhos/cm) ~ 5	Comments:
10:05	1	5	5.9	1250	
10:30	10	5	6.41	1210	
10:45	20	5	6.70	1220	
10:50	30	4.5	6.70	1220	
11:05	40	4.5	6.70	1230	
11:20	50	4.5	6.68	1250	
11:35	60	4.5	6.67	1220	Water is clearing up
11:50	70	4.5	6.67	1240	
12:05	80	4.5	6.67	1230	
13:55	90	4.5	6.35	1240	
~~11:05~~	100	—	—	—	pump is pumping faster missed 100 gal reading
1405	110	4.5	6.40	1220	
1412	120	4.5	6.52	1220	
1420	130	4.5	6.55	1210	
1430	140	4.5	6.60	1210	
1440	160	4.5	6.62	1220	turbidity still a little high =(0.5 after ~60 min)
	~~160~~				
	~~170~~				

1995 Groundwater Sampling Forms

GROUNDWATER QUALITY SAMPLING LOG

Project: Galena Airport RI/FS
Client: AFCEE

Well ID: SE-MW-01
Date: 8-9-95
Time: 14:15

Location: Southeast Runway
Weather: Cloudy 65
Samplers: DrP, EDS

Comments: Imhoff cones collected at 0, 40, and 72 gallons. 0.5 in of sediment present in first cone

Field Measurements:

OVM Reading (ppm): 55
Water Depth (ft btoc): 14.2
Product Thickness (ft): 0
Borehole Volume (gal): 34.2

Product Depth (ft btoc): ~~0~~ NA
Well Depth (ft btoc): 25.3
Saturated Thickness (ft): 11.10
3 Borehole Volumes (gal): 77.6

Purge/Sample Method: WaTerra

Time	Cum. Vol. (gal)	Temp. (deg C)	pH (pH units)	Conductivity (umhos/cm)	Comments:
13:25	0	40	6.66	1500	
13:35	10	34	6.65	1550	
13:44	20	35	6.68	1540	
13:50	32	35	6.71	1570	
13:56	42	35	6.73	1560	
14:01	52	35	6.67	1570	
14:06	62	35	6.67	1560	
14:10	72	35	6.72	1570	

Final Measurements:

Temperature 35 pH 6.72 Conductivity 1570 Alkalinity 988
dup 925

GROUNDWATER QUALITY SAMPLING LOG

Project: Galena Airport RI/FS
Client: AFCEE

Well ID: SE-MW-04
Date: 8-9-95
Time: 11:00

Location: Southeast Runway
Weather: P Cloudy 65°
Samplers: EDS - DcP

Comments: Inhoff cones collected at 0 40 and 80 gallons. No sediment was observed in any cone

Field Measurements:

OVM Reading (ppm): 0
Water Depth (ft btoc): 11.80
Product Thickness (ft): 0
Borehole Volume (gal): 38

Product Depth (ft btoc): 0
Well Depth (ft btoc): 25.3
Saturated Thickness (ft): 13.60
3 Borehole Volumes (gal): 84 gal

Purge/Sample Method: MaTerra

Time	Cum. Vol. (gal)	Temp. (deg C)	pH (pH units)	Conductivity (umhos/cm)	Comments:
10:10	0	39	5.48	960	Water clear
10:16	10	35	6.29	940	
10:22	20	35	6.46	920	
10:28	30	35	6.53	940	
10:32	40	35	6.62	930	
10:37	50	35	6.64	940	
10:43	60	35	6.63	930	
10:46	70	35	6.63	930	
10:51	80	35	6.66	930	
10:55	95	35	6.67	930	

Final Measurements:

Temperature 35 pH 6.67 Conductivity 930 Alkalinity 382

GROUNDWATER QUALITY SAMPLING LOG

Project: Galena Airport RI/FS
Client: AFCEE

Well ID: SE-MW-03
Date: 8-8-95
Time: 13:30

Location: South Edge of Southeast Runway
Weather: Cloudy / Rain
Samplers: EDS/DRP

Comments:

Field Measurements:

OVM Reading (ppm): 0 ppm
Water Depth (ft btoc): 14 Ft
Product Thickness (ft): 0.0
Borehole Volume (gal): 24.20

Product Depth (ft btoc): ~~0.0~~ N/A
Well Depth (ft btoc): 25.00
Saturated Thickness (ft): 11.00
3 Borehole Volumes (gal): 72.60

Purge/Sample Method:

Time	Cum. Vol. (gal)	Temp. (deg Ø F	pH (pH units)	Conductivity (umhos/cm)	Comments:
13:35	10	36	7.05	550	Water Clear
13:45	20	35	6.72	530	
13:57	30	35	6.57	530	
14:06	40	35	6.59	520	
14:15	52	35	6.59	520	
14:25	62	35	6.66	520	
14:37	72	35	6.90	520	Water < .1 ml sed.

Final Measurements:

Temperature 35°F pH 6.90 Conductivity 520 Alkalinity 266 mg/L

GROUNDWATER QUALITY SAMPLING LOG

Project: Galena Airport RI/FS
Client: AFCEE

Well ID: SE-MW-02
Date: 8-8-95
Time: 14:00

Location: Southeast Runway
Weather: Cloudy
Samplers: EDS/DRP

Comments: E-line missing from storeroom

Field Measurements:

OVM Reading (ppm): Ø ppm
Water Depth (ft btoc): 13.45 (8/10/95)
Product Thickness (ft): 0.00
Borehole Volume (gal): 24.20

Product Depth (ft btoc): N/A
Well Depth (ft btoc): 25.00' 24.96 (8/10/95)
Saturated Thickness (ft): 11.45
3 Borehole Volumes (gal): 72.60 (76)

Purge/Sample Method:

Time	Cum. Vol. (gal)	Temp. (deg C)	pH (pH units)	Conductivity (umhos/cm)	Comments:
16:09	0	37	7.10	1190	Water a little silty
16:14	10	36	6.88	1170	Water cleared up
16:19	20	35	6.73	1170	
~~16:~~	30	3—	—	—	Reading not taken
16:26	40	35	6.68	1180	
16:31	50	35	6.69	1180	
16:36	60	35	6.68	1190	
16:40	~~70~~ 75	35	6.70	1180	
	~~75~~				

Final Measurements:

Temperature 35° F pH 6.70 Conductivity 1180 µS Alkalinity 6 mg/L

END

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