

NOT REQUIRED TO BE
ENTERED IN COMET
Surface H₂O



PASCO COUNTY, FLORIDA

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UTILITIES SERVICES BRANCH
PUB. WKS./UTILITIES BLDG. S-213
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

09 August 1999

Ms. Allison Amram
Environmental Specialist III
Waste Management Section
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

D.E.P.
AUG 11 1999
Southwest District Tampa

RE: West Pasco Class I Sanitary Landfill
Surface Water Monitoring

Dear Ms. Amram:

Enclosed please find the analytical results for the parameters listed in 62-701(8)(b) Florida Administrative Code, conducted on the surface water runoff at the West Pasco Class I Sanitary Landfill. The samples were collected after four different rain events: June 16, June 17, June 18, and June 21.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

Enc.

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmund, Utilities Fiscal Services/Special Projects Director



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: RES REC ASHCELL
DATE: 07/19/99

SAMPLE NUMBER- 80508 SAMPLE ID- ASH CELL RAINWATER RUNOFF SAMPLE MATRIX- OT
DATE SAMPLED- 06/16/99 LOCATION- RAINWATER RUNOFF TIME SAMPLED- 0805
DATE RECEIVED- 06/16/99 SAMPLER- S VANDUNK RECEIVED BY- MAS
TIME RECEIVED- 0950 DELIVERED BY- S VAN DUNK TYPE SAMPLE- Grab

Page 3 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			06/24/99	1230	IF	3.81	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			06/16/99	1200	DN	3	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			06/22/99	1530	TER	24.0	mg/L	
CHLOROPHYLL A	SM 10200H	06/21/99	TER	06/22/99	1000	JKH	6.89	mg/M3	
FECAL COLIFORM MF	SM9222D			06/16/99	1030	AS	1	MF/100 ml	
HARDNESS AS CaCO3 BY CALC	SM2340B			06/21/99	1600	TER	2.0	mg/L CaCo3	
AMMONIA NITROGEN	SM4500NH3H			06/18/99	1530	IF	<0.03	mg/L	
UN-IONIZED AMMONIA N	DEP SOP			07/15/99	1100	CEM	<0.02	mg/L	
KJELDAHL NITROGEN	4500NorgB			06/17/99	1200	TER	0.33	mg/L	
NITRATE	SM4500NO3F			06/16/99	1600	IF	0.64	mg/L	
TOTAL NITROGEN	CALC.			07/15/99	1100	CEM	0.33	MG/L	
PH,LAB	SM4500H+ B			06/21/99	1600	JKH	7.06	std units	
TEMPERATURE, LAB	SM2550B			06/19/99	1500	JK	20.2	degrees C	
TOTAL PHOSPHOROUS	SM4500P B			06/17/99	1230	DN	0.04	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			06/21/99	1500	JKH	32	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			06/16/99	1600	DN	2	mg/L	
SPEC.CONDUCTIVITY	SM2510B			06/21/99	1600	JKH	36	umhos/cm	
TURBIDITY	SM 2130 B			06/21/99	1600	JKH	1.94	NTU	
COPPER,TOTAL	SM3113B	06/18/99	TER	06/21/99	1005	TER	<0.02	mg/L	
IRON,TOTAL	SM 3111B	06/21/99	TER	06/21/99	0950	TER	0.03	mg/L	
MERCURY,TOTAL	SM3112B			06/22/99	1110	TER	0.0009	mg/L	



PASCO COUNTY, FLORIDA

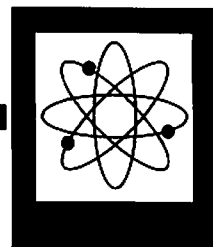
Page 4 of 2

CONTINUATION OF DATA FOR SAMPLE NUMBER 80508

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	TIME	BY	RESULT	UNITS	DQ
ZINC, TOTAL	SM3111B	06/18/99	TER	06/21/99	1015	TER	0.12 mg/L	

LABORATORY DIRECTOR

Candice E. Hulth



Received From:
Pasco Co. Utilities Env. Lab
8864 Government Dr.
New Port Richey, FL 34654

Date Reported : Jun28 1999
Project Number : Resource Recover
PO Number : 110456
FDHRSW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

ASH CELL RUNOFF

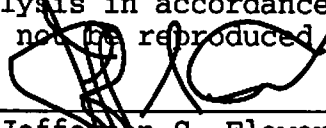
For: Appendix I

Date Sampled: Jun16 1999 Date Received: Jun18 1999 Lab Number : 8145
REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8145 ACRRO
		Detection Limit			
Silver	mg/L	.00005	108.	.200	<5e-05
Arsenic	mg/L	.00005	100.	1.55	.00033
Barium	mg/L	.00040	115.	1.70	.00578
Beryllium	mg/L	.00010	113.	.000	<.0001
Cadmium	mg/L	.00005	100.	.870	.00025
Cobalt	mg/L	.00010	109.	3.18	.00027
Chromium	mg/L	.00020	111.	3.13	<.0002
Copper	mg/L	.00020	105.	8.01	.00644
Nickel	mg/L	.00020	104.	4.10	.00108
Lead	mg/L	.00010	96.7	1.37	.00163
Antimony	mg/L	.00020	100.	2.14	.00750
Selenium	mg/L	.00030	102.	.000	<.0003
Thallium	mg/L	.00010	98.2	.890	<.0001
Vanadium	mg/L	.00006	113.	.300	.00424
Zinc	mg/L	.00070	107.	7.60	0.0778
Dilution_Factor		-	-	-	1.00
Acetone	ug/L	10.0	79.7	12.8	<10.0
Acrylonitrile	ug/L	1.00			<1.00
Benzene	ug/L	0.500	92.7	3.70	<0.500
Bromobenzene	ug/L	1.00	89.0	3.85	<1.00
Bromochloromethane	ug/L	1.00	91.0	3.89	<1.00
Bromodichloromethane	ug/L	1.00	86.8	4.93	<1.00
Bromoform	ug/L	1.00	80.1	6.27	<1.00
Bromomethane	ug/L	5.00	96.4	4.11	<5.00
n-butylbenzene	ug/L	1.00	92.3	3.49	<1.00
sec-butylbenzene	ug/L	1.00	91.6	4.13	<1.00

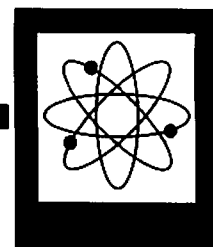
Data Release Authorization

Sample integrity certified prior to analysis. Deficiencies are in QA Report Sec.4
Methods of analysis in accordance with FCL QA and EPA approved methodology.
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Jefferson S. Flowers, Ph.d.
President/Technical Director

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8864 Government Dr.
New Port Richey, FL 34654

Date Reported : Jun28 1999
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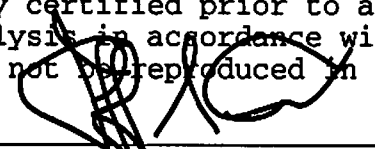
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REPORT OF ANALYSIS

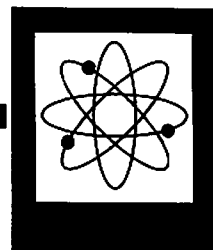
Parameter	Unit	Method	%ACC	%PRC	8145 ACRRO
					Detection
					Limit
tert-butylbenzene	ug/L	1.00	101.	5.09	<1.00
Carbon disulfide	ug/L	5.00	87.1	9.90	<5.00
Carbon tetrachloride	ug/L	1.00	89.9	5.70	<1.00
Chlorobenzene	ug/L	0.500	93.2	4.78	<0.500
Chloroethane	ug/L	1.00	96.1	2.28	<1.00
Chloroform	ug/L	1.00	92.4	4.21	<1.00
Chloromethane	ug/L	5.00	88.5	4.20	<5.00
2-chlorotoluene	ug/L	0.500	95.0	.700	<0.500
4-chlorotoluene	ug/L	0.500	86.5	7.60	<0.500
Dibromochloromethane	ug/L	1.00	90.0	5.54	<1.00
1,2-dibromo-3-chloro	ug/L	1.00	86.3	5.65	<1.00
1,2-dibromoethane	ug/L	1.00	92.3	3.99	<1.00
Dibromomethane	ug/L	1.00	90.2	5.10	<1.00
o-dichlorobenzene	ug/L	0.500	89.4	3.20	<0.500
m-dichlorobenzene	ug/L	0.500	89.3	4.63	<0.500
Para-dichlorobenzene	ug/L	0.500	89.1	4.88	<0.500
Dichlorodifluorometh	ug/L	2.00	77.3	10.1	<2.00
t-1,4-dichloro-2-but	ug/L	10.0			<10.0
1,1-dichloroethane	ug/L	1.00	81.2	1.22	<1.00
1,2-dichloroethane	ug/L	1.00	91.7	4.67	<1.00
1,1-dichloroethene	ug/L	1.00	89.9	6.41	<1.00
cis-1,2-dichloroethe	ug/L	1.00	86.6	7.72	<1.00
t-1,2-dichloroethene	ug/L	2.00	85.9	8.48	<2.00
1,2-dichloroethene	ug/L	1.00	86.2	8.10	<1.00
1,2-dichloropropane	ug/L	1.00	92.6	4.77	<1.00
1,3-dichloropropane	ug/L	1.00	92.4	5.62	<1.00

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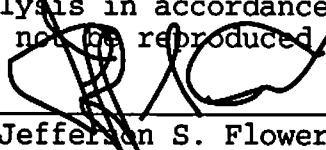
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Date Sampled: Jun16 1999 Date Received: Jun18 1999 Lab Number : 8145
REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8145 ACRRO
		Detection Limit			
2,2-dichloropropane	ug/L	3.00	86.0	7.69	<3.00
1,1-dichloropropene	ug/L	0.500	84.4	3.06	<0.500
cis-1,3-dichloroprop	ug/L	1.00	91.2	4.77	<1.00
trans-1,3,-dichlorop	ug/L	1.00	88.8	5.50	<1.00
Ethylbenzene	ug/L	0.500	93.7	3.96	<0.500
Hexachlorobutadiene	ug/L	1.00	93.7	3.13	<1.00
2-Hexanone	ug/L	10.0	82.8	6.27	<10.0
Hexachloroethane	ug/L	1.00			<1.00
Isopropylbenzene	ug/L	1.00	89.1	5.16	<1.00
4-isopropyltoluene	ug/L	1.00	92.0	4.54	<1.00
Methylene chloride	ug/L	1.00	89.2	11.6	<1.00
Methyl-tert-butyleth	ug/L	1.00	84.1	8.67	<1.00
2-butanone	ug/L	10.0			<10.0
Methyl iodide	ug/L	1.00	82.9	11.4	<1.00
4-methyl-2-pentanone	ug/L	10.0	75.9	13.2	<10.0
Naphthalene	ug/L	1.00	93.8	6.41	<1.00
propylbenzene	ug/L	1.00	92.8	4.15	<1.00
Styrene	ug/L	1.00	84.4	6.16	<1.00
1,1,1,2-tetrachloroe	ug/L	1.00	95.9	4.39	<1.00
1,1,2,2-tetrachloroe	ug/L	1.00	89.2	4.40	<1.00
Tetrachloroethene	ug/L	1.00	76.4	6.16	<1.00
Toluene	ug/L	0.500	91.8	4.12	<0.500
1,2,3-trichlorobenze	ug/L	1.00	88.6	4.15	<1.00
1,2,4-trichlorobenze	ug/L	1.00	92.1	4.99	<1.00
1,1,1-trichloroethan	ug/L	1.00	93.1	4.33	<1.00
1,1,2-trichloroethan	ug/L	1.00	91.4	4.03	<1.00

Data Release Authorization

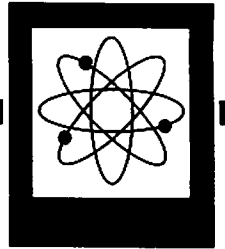
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FLOWERS

**CHEMICAL
LABORATORIES**
INCORPORATED



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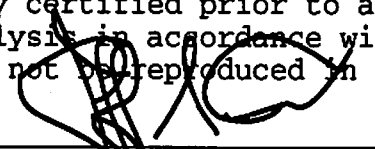
Date Sampled: Jun16 1999 Date Received: Jun18 1999 Lab Number : 8145

REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8145 ACRRO
					Detection Limit
Trichloroethene	ug/L	1.00	107.	3.60	<1.00
Trichlorofluorometha	ug/L	2.00	88.9	6.60	<2.00
1,2,3-trichloropropa	ug/L	1.00	91.1	5.08	<1.00
1,2,4-trimethylbenze	ug/L	1.00	90.6	3.90	<1.00
1,3,5-trimethylbenze	ug/L	1.00	90.6	4.18	<1.00
Vinyl acetate	ug/L	1.00	91.9	11.6	<1.00
Vinyl chloride	ug/L	0.500	91.6	6.33	<0.500
Xylene	ug/L	0.500	94.2	3.61	<0.500
Surrogate_Spike1	ug/L	1.00	96.2	.760	28.2
Surrogate_Spike2	ug/L	1.00	100.	.280	28.5
Surrogate_Spike3	ug/L	1.00	99.4	.680	24.3

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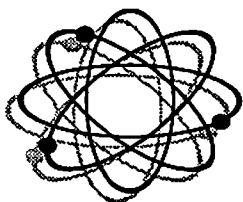
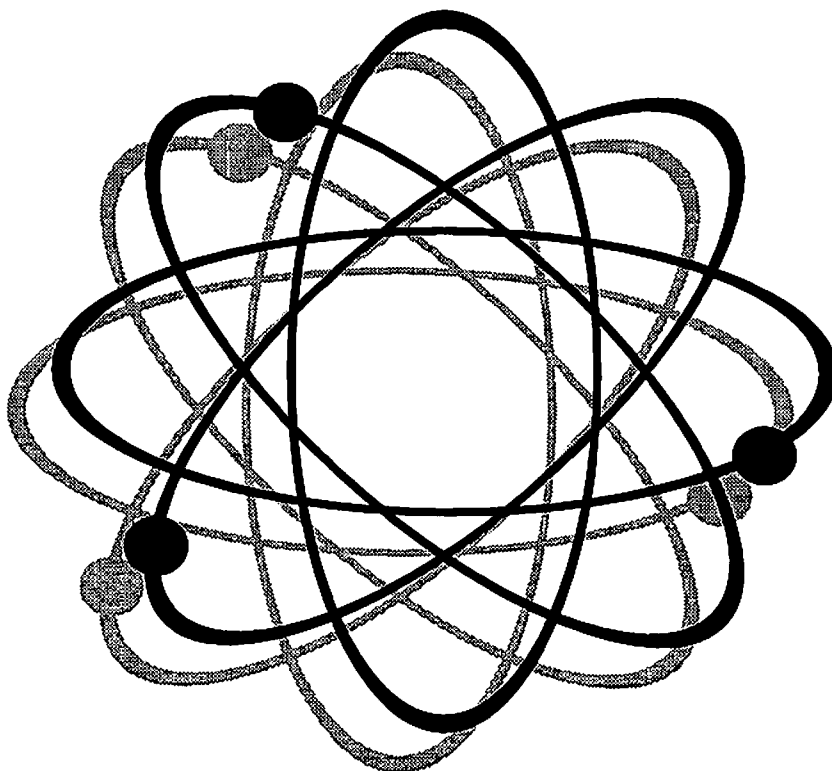
3609		FLOWERS CHEMICAL LABORATORIES													
		ANALYTICAL RESULTS FORM										HRS Number 83139			
Parameter	Symbol	Unit	ACRRO									QA		Section	
			8145									Method	MDL	%RSD	%Rec
Silver	*	mg/L	<0.00005U									EPA6020	0.00005	0.2046140	108.25
Arsenic	*	mg/L	0.000333									EPA6020	0.00005	1.5545019	100.35
Barium	*	mg/L	0.00578									EPA6020	0.0004	1.7036581	115.4
Beryllium	*	mg/L	<0.0001U									EPA6020	0.0001	0	113.25
Cadmium	*	mg/L	0.000253									EPA6020	0.00005	0.8761938	100.388
Cobalt	*	mg/L	0.000268									EPA6020	0.0001	3.1818633	109.1295
Chromium	*	mg/L	<0.0002U									EPA6020	0.0002	3.1325867	111
Copper	*	mg/L	0.00644									EPA6020	0.0002	8.0183838	105.1
Nickel	*	mg/L	0.00108									EPA6020	0.0002	4.1065232	104.765
Lead	*	mg/L	0.00163									EPA6020	0.0001	1.3720244	96.765
Antimony	*	mg/L	0.00750									EPA6020	0.0002	2.1479508	100.875
Selenium	*	mg/L	<0.0003U									EPA6020	0.0003	0	102.25
Thallium	*	mg/L	<0.0001U									EPA6020	0.0001	0.8961577	98.25
Vanadium	*	mg/L	0.00424									EPA6020	0.00006	0.3059484	113.5925
Zinc	*	mg/L	0.0778									EPA6020	0.0007	7.6045060	107
Dilution Factor	*	#	1									EPA5030	1		CLS
Acetone	*	ug/L	<10U									EPA8260	10	12.8	79.7
Acrylonitrile	*	ug/L	<1U									EPA8260	1		CLS
Benzene	*	ug/L	<0.5U									EPA8260	0.5	3.7	92.7
Bromobenzene	*	ug/L	<1U									EPA8260	1	3.85	89
Bromochloromethane	*	ug/L	<1U									EPA8260	1	3.89	91
Bromodichloromethane	*	ug/L	<1U									EPA8260	1	4.93	86.8
Bromofarm	*	ug/L	<1U									EPA8260	1	6.27	80.1
Bromomethane	*	ug/L	<5U									EPA8260	5	4.11	96.4
n-butylbenzene	*	ug/L	<1U									EPA8260	1	3.49	92.3
sec-butylbenzene	*	ug/L	<1U									EPA8260	1	4.13	91.6
tert-butylbenzene	*	ug/L	<1U									EPA8260	1	5.09	101
Carbon disulfide	*	ug/L	<5U									EPA8260	5	9.9	87.1
Carbon tetrachloride	*	ug/L	<1U									EPA8260	1	5.7	89.9
Chlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	4.78	93.2
Chloroethane	*	ug/L	<1U									EPA8260	1	2.28	96.1
Chloroform	*	ug/L	<1U									EPA8260	1	4.21	92.4
Chloromethane	*	ug/L	<5U									EPA8260	5	4.2	88.5
2-chlorotoluene	*	ug/L	<0.5U									EPA8260	0.5	0.707	95
4-chlorotoluene	*	ug/L	<0.5U									EPA8260	0.5	7.6	86.5
Dibromochloromethane	*	ug/L	<1U									EPA8260	1	5.54	90
1,2-dibromo-3-chloroprop	*	ug/L	<1U									EPA8260	1	5.65	86.3
1,2-dibromoethane	*	ug/L	<1U									EPA8260	1	3.99	92.3
Dibromomethane	*	ug/L	<1U									EPA8260	1	5.1	90.2
o-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	3.2	89.4
m-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	4.63	89.3
Para-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	4.88	89.1
Dichlorodifluoromethane	*	ug/L	<2U									EPA8260	2	10.1	77.3
t-1,4-dichloro-2-butene	*	ug/L	<10U									EPA8260	10		CLS
1,1-dichloroethane	*	ug/L	<1U									EPA8260	1	1.22	81.2
1,2-dichloroethane	*	ug/L	<1U									EPA8260	1	4.67	91.7
1,1-dichloroethene	*	ug/L	<1U									EPA8260	1	6.41	89.9
cis-1,2-dichloroethene	*	ug/L	<1U									EPA8260	1	7.72	86.6
t-1,2-dichloroethene	*	ug/L	<2U									EPA8260	2	8.48	85.9
1,2-dichloroethene	*	ug/L	<1U									EPA8260	1	6.1	86.2

1,2-dichloropropane	*	ug/L	<1U									EPA8260	1	4.77	92.6	CLS	06-25-99
1,3-dichloropropane	*	ug/L	<1U									EPA8260	1	5.62	92.4	CLS	06-25-99
2,2-dichloropropane	*	ug/L	<3U									EPA8260	3	7.69	86	CLS	06-25-99
1,1-dichloropropene	*	ug/L	<0.5U									EPA8260	0.5	3.06	84.4	CLS	06-25-99
cis-1,3-dichloropropene	*	ug/L	<1U									EPA8260	1	4.77	91.2	CLS	06-25-99
trans-1,3-dichloropropene	*	ug/L	<1U									EPA8260	1	5.5	88.8	CLS	06-25-99
Ethylbenzene	*	ug/L	<0.5U									EPA8260	0.5	3.96	93.7	CLS	06-25-99
Hexachlorobutadiene	*	ug/L	<1U									EPA8260	1	3.13	93.7	CLS	06-25-99
2-Hexanone	*	ug/L	<10U									EPA8260	10	6.27	82.8	CLS	06-25-99
Hexachloroethane	*	ug/L	<1U									EPA8260	1			CLS	06-25-99
Isopropylbenzene	*	ug/L	<1U									EPA8260	1	5.16	89.1	CLS	06-25-99
4-Isopropyltoluene	*	ug/L	<1U									EPA8260	1	4.54	92	CLS	06-25-99
Methylene chloride	*	ug/L	<1U									EPA8260	1	11.6	89.2	CLS	06-25-99
Methyl-tert-butylether	*	ug/L	<1U									EPA8260	1	8.67	84.1	CLS	06-25-99
2-butanone	*	ug/L	<10U									EPA8260	10			CLS	06-25-99
Methyl iodide	*	ug/L	<1U									EPA8260	1	11.4	82.9	CLS	06-25-99
4-methyl-2-pentanone	*	ug/L	<10U									EPA8260	10	13.2	75.9	CLS	06-25-99
Naphthalene	*	ug/L	<1U									EPA8260	1	6.41	93.8	CLS	06-25-99
Propylbenzene	*	ug/L	<1U									EPA8260	1	4.15	92.8	CLS	06-25-99
Styrene	*	ug/L	<1U									EPA8260	1	6.16	84.4	CLS	06-25-99
1,1,1,2-tetrachloroethane	*	ug/L	<1U									EPA8260	1	4.39	95.9	CLS	06-25-99
1,1,2,2-tetrachloroethane	*	ug/L	<1U									EPA8260	1	4.4	89.2	CLS	06-25-99
Tetrachloroethene	*	ug/L	<1U									EPA8260	1	6.16	76.4	CLS	06-25-99
Toluene	*	ug/L	<0.5U									EPA8260	0.5	4.12	91.8	CLS	06-25-99
1,2,3-trichlorobenzene	*	ug/L	<1U									EPA8260	1	4.15	88.6	CLS	06-25-99
1,2,4-trichlorobenzene	*	ug/L	<1U									EPA8260	1	4.99	92.1	CLS	06-25-99
1,1,1-trichloroethane	*	ug/L	<1U									EPA8260	1	4.33	93.1	CLS	06-25-99
1,1,2-trichloroethane	*	ug/L	<1U									EPA8260	1	4.03	91.4	CLS	06-25-99
Trichloroethene	*	ug/L	<1U									EPA8260	1	3.6	107	CLS	06-25-99
Trichlorofluoromethane	*	ug/L	<2U									EPA8260	2	6.6	88.9	CLS	06-25-99
1,2,3-trichloropropane	*	ug/L	<1U									EPA8260	1	5.08	91.1	CLS	06-25-99
1,2,4-trimethylbenzene	*	ug/L	<1U									EPA8260	1	3.9	90.6	CLS	06-25-99
1,3,5-trimethylbenzene	*	ug/L	<1U									EPA8260	1	4.18	90.6	CLS	06-25-99
Vinyl acetate	*	ug/L	<1U									EPA8260	1	11.8	91.9	CLS	06-25-99
Vinyl chloride	*	ug/L	<0.5U									EPA8260	0.5	6.33	91.6	CLS	06-25-99
Xylene	*	ug/L	<0.5U									EPA8260	0.5	3.61	94.2	CLS	06-25-99
Surrogate Spike1	*	ug/L	28.24									EPA8260	1	0.76	96.2	CLS	06-25-99
Surrogate Spike2	*	ug/L	28.47									EPA8260	1	0.282	100	CLS	06-25-99
Surrogate Spike3	*	ug/L	24.34									EPA8260	1	0.688	99.4	CLS	06-25-99
-	*	-	-									-	-				
Date Received: 06-18-99 Typed: 06-28-99 Sent: 06-28-99																	
Project Number	Resource Recover																
PO Number	110456																
Date Sampled	1 06-16-99 *																
Date Analyzed	0																
Compacted	1																
Format	NormRR																
Unit Cost	Exted																
Appendix I	18500 1 *																

Quality Assurance Report

Prepared for: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
Lab Numbers: 8145 - 8145

Report date: 28-Jun-99



**FLOWERS
CHEMICAL
LABORATORIES**

**QA
Conformance
Summary**

Client:	Pasco Co. Utilities Env. Lab
Project Number:	Resource Recover
P.O. Number:	110456
Date Sampled:	16-Jun-99
Lab Numbers:	8145 - 8145

Sample Handling

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter

Surrogate Compound Recoveries:

The recovery limits were met for all sample as shown in section 1. This represents complete success.

Accuracy / Precision:

The recovery limits were met for all compounds in the matrix spike as shown in section 2.

The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.

The RSD was met for all compounds as shown in section 2.

Method Blanks:

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were met for all compounds as shown in section 4.

Standards Traceability:

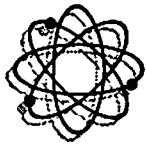
The t-test limits were exceeded for 6 calibration standards as shown in section 5.

This represents a 92.6% success rate.

The t-test limits were exceeded for 5 QCCS standards as shown in section 5. This represents a 93.8% success rate.

The t-test limits were exceeded for 7 matrix spike standards as shown in section 5.

This represents a 91.4% success rate.



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

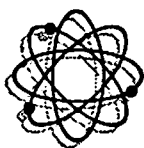
Surrogate_Spike1 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 21.8 - 34.1

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8145	ACRRO	28.2	94.1



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Surrogate_Spike2 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 22.8 - 35.6

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8145	ACRRO	28.5	94.9



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

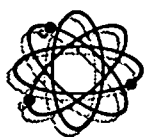
Surrogate_Spike3 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 20.6 - 34

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8145	ACRRO	24.3	81.1



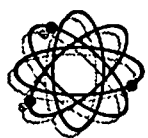
FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.222	0.0000	0.241	108%	0.240	108%	0.133 - 0.295	0.000	0 - 0.049
Arsenic	mg/L	EPA6020	06-23-99	0.222	0.000	0.223	100%	0.219	98.6%	0.169 - 0.283	0.003	0 - 0.035
Barium	mg/L	EPA6020	06-23-99	0.222	0.006	0.262	115%	0.257	113%	0.170 - 0.287	0.004	0 - 0.036
Beryllium	mg/L	EPA6020	06-23-99	0.222	<0.0001	0.252	113%	0.252	113%	0.148 - 0.316	0.000	0 - 0.045
Cadmium	mg/L	EPA6020	06-23-99	0.222	0.000	0.223	100%	0.226	101%	0.153 - 0.288	0.002	0 - 0.034
Cobalt	mg/L	EPA6020	06-23-99	0.222	0.000	0.243	109%	0.252	113%	0.150 - 0.292	0.006	0 - 0.041
Chromium	mg/L	EPA6020	06-23-99	0.222	<0.0002	0.247	111%	0.256	115%	0.159 - 0.282	0.006	0 - 0.031
Copper	mg/L	EPA6020	06-23-99	0.222	0.006	0.240	105%	0.263	115%	0.148 - 0.295	0.016	0 - 0.041
Nickel	mg/L	EPA6020	06-23-99	0.222	0.001	0.234	105%	0.245	110%	0.146 - 0.290	0.008	0 - 0.041
Lead	mg/L	EPA6020	06-23-99	0.222	0.002	0.217	96.8%	0.213	95.3%	0.155 - 0.296	0.002	0 - 0.035
Antimony	mg/L	EPA6020	06-23-99	0.222	0.008	0.232	101%	0.226	98.4%	0.169 - 0.301	0.004	0 - 0.038
Selenium	mg/L	EPA6020	06-23-99	0.222	<0.0003	0.227	102%	0.227	102%	0.157 - 0.284	0.000	0 - 0.037
Thallium	mg/L	EPA6020	06-23-99	0.222	<0.0001	0.218	98.3%	0.221	99.3%	0.161 - 0.292	0.002	0 - 0.041
Vanadium	mg/L	EPA6020	06-23-99	0.222	0.004	0.257	114%	0.258	114%	0.163 - 0.307	0.001	0 - 0.046
Zinc	mg/L	EPA6020	06-23-99	0.222	0.078	0.316	107%	0.344	120%	0.169 - 0.401	0.020	0 - 0.050
Acetone	ug/L	EPA8260	06-25-99	200	<10	145	72.5%	174	87.0%	78.2 - 321	20.5	0 - 66.3
Benzene	ug/L	EPA8260	06-25-99	20	<0.5	18.1	90.5%	19.0	95.0%	12.6 - 25.7	0.636	0 - 3.93
Bromobenzene	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.3	91.5%	15.1 - 23.6	0.707	0 - 2.45
Bromochloromethane	ug/L	EPA8260	06-25-99	20	<1	17.7	88.5%	18.7	93.5%	14.7 - 24.2	0.707	0 - 2.84
Bromodichloromethane	ug/L	EPA8260	06-25-99	20	<1	16.8	84.0%	18.0	90.0%	16.0 - 23.8	0.849	0 - 2.21
Bromoform	ug/L	EPA8260	06-25-99	20	<1	15.3	76.5%	16.7	83.5%	13.5 - 25.5	0.990	0 - 3.26
Bromomethane	ug/L	EPA8260	06-25-99	20	<5	18.7	93.5%	19.8	99.0%	13.8 - 26.1	0.778	0 - 4.44
n-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	18.9	94.5%	14.2 - 23.6	0.636	0 - 2.66
sec-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	18.9	94.5%	15.2 - 23.4	0.778	0 - 2.50
tert-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	19.4	97.0%	20.9	105%	15.1 - 23.8	1.06	0 - 2.47
Carbon disulfide	ug/L	EPA8260	06-25-99	20	<5	16.2	81.0%	18.6	93.0%	8.90 - 30.9	1.70	0 - 6.29
Carbon tetrachloride	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.7	93.5%	11.9 - 27.9	0.990	0 - 4.36
Chlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	18.0	90.0%	19.3	96.5%	16.6 - 23.2	0.919	0 - 1.81
Chloroethane	ug/L	EPA8260	06-25-99	20	<1	18.9	94.5%	19.5	97.5%	12.4 - 26.3	0.424	0 - 5.14
Chloroform	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.0	95.0%	14.1 - 25.9	0.778	0 - 3.60
Chloromethane	ug/L	EPA8260	06-25-99	20	<5	17.2	86.0%	18.2	91.0%	10.9 - 25.9	0.707	0 - 4.27
2-chlorotoluene	ug/L	EPA8260	06-25-99	20	<0.5	18.9	94.5%	19.1	95.5%	14.9 - 23.9	0.141	0 - 2.52
4-chlorotoluene	ug/L	EPA8260	06-25-99	20	<0.5	16.4	82.0%	18.2	91.0%	14.9 - 23.4	1.27	0 - 2.21
Dibromochloromethane	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.7	93.5%	15.1 - 24.5	0.990	0 - 2.64
1,2-dibromo-3-chloropropan	ug/L	EPA8260	06-25-99	20	<1	16.6	83.0%	18.0	90.0%	12.0 - 26.4	0.990	0 - 4.45



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.0	95.0%	15.5 - 24.2	0.778	0 - 3.08
Dibromomethane	ug/L	EPA8260	06-25-99	20	<1	17.4	87.0%	18.7	93.5%	16.1 - 23.9	0.919	0 - 2.32
o-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.5	87.5%	18.3	91.5%	14.4 - 24.4	0.566	0 - 2.72
m-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.3	86.5%	18.4	92.0%	14.6 - 24.0	0.778	0 - 2.65
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.2	86.0%	18.4	92.0%	14.5 - 23.9	0.849	0 - 2.67
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	20	<2	14.4	72.0%	16.6	83.0%	8.82 - 26.1	1.56	0 - 4.81
1,1-dichloroethane	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	16.1	80.5%	13.8 - 26.2	0.212	0 - 3.63
1,2-dichloroethane	ug/L	EPA8260	06-25-99	20	<1	17.7	88.5%	18.9	94.5%	14.1 - 25.5	0.849	0 - 3.48
1,1-dichloroethene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.8	94.0%	13.4 - 25.2	1.13	0 - 3.44
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	18.3	91.5%	14.6 - 24.6	1.34	0 - 2.83
t-1,2-dichloroethene	ug/L	EPA8260	06-25-99	20	<2	16.2	81.0%	18.2	91.0%	12.8 - 26.1	1.41	0 - 3.63
1,2-dichloroethene	ug/L	EPA8260	06-25-99	40	<1	32.5	81.3%	36.5	91.3%	27.8 - 50.5	2.83	0 - 6.04
1,2-dichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.2	96.0%	15.1 - 24.6	0.919	0 - 2.35
1,3-dichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.2	96.0%	15.6 - 24.4	0.990	0 - 2.57
2,2-dichloropropane	ug/L	EPA8260	06-25-99	20	<3	16.3	81.5%	18.1	90.5%	5.64 - 25.8	1.27	0 - 6.50
1,1-dichloropropene	ug/L	EPA8260	06-25-99	20	<0.5	16.5	82.5%	17.3	86.5%	13.8 - 23.9	0.566	0 - 2.79
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.9	94.5%	15.0 - 23.8	0.919	0 - 2.54
trans-1,3-dichloropropene	ug/L	EPA8260	06-25-99	20	<1	17.1	85.5%	18.4	92.0%	13.8 - 25.0	0.919	0 - 3.26
Ethylbenzene	ug/L	EPA8260	06-25-99	20	<0.5	18.2	91.0%	19.3	96.5%	14.6 - 24.3	0.778	0 - 2.63
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	20	<1	18.3	91.5%	19.2	96.0%	15.0 - 23.7	0.636	0 - 2.85
2-Hexanone	ug/L	EPA8260	06-25-99	20	<10	15.8	79.0%	17.3	86.5%	10.8 - 28.3	1.06	0 - 3.93
Isopropylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.5	92.5%	13.4 - 24.6	0.919	0 - 3.17
4-isopropyltoluene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.0	95.0%	15.5 - 23.0	0.849	0 - 2.30
Methylene chloride	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	19.3	96.5%	12.9 - 27.5	2.05	0 - 4.47
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	20	<1	15.8	79.0%	17.8	89.0%	8.70 - 27.9	1.41	0 - 4.39
2-butanone	ug/L	EPA8260	06-25-99	20	<10	11.5	57.5%	15.0	75.0%	8.34 - 31.0	2.47	0 - 7.03
Methyl iodide	ug/L	EPA8260	06-25-99	20	<1	15.2	76.0%	17.9	89.5%	10.4 - 32.4	1.91	0 - 5.04
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	20	<10	16.6	83.0%	13.8	69.0%	7.62 - 27.9	1.98	0 - 5.01
Naphthalene	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.6	98.0%	12.5 - 26.7	1.20	0 - 4.51
Propylbenzene	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	19.1	95.5%	14.9 - 23.6	0.778	0 - 2.42
Styrene	ug/L	EPA8260	06-25-99	20	<1	16.2	81.0%	17.6	88.0%	15.0 - 26.6	0.990	0 - 2.65
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	20	<1	18.6	93.0%	19.8	99.0%	15.7 - 24.0	0.849	0 - 2.60
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.4	92.0%	11.7 - 25.9	0.778	0 - 4.10
Tetrachloroethene	ug/L	EPA8260	06-25-99	40	<1	29.2	73.0%	31.9	79.8%	22.3 - 55.7	1.91	0 - 10.2
Toluene	ug/L	EPA8260	06-25-99	20	<0.5	17.8	89.0%	18.9	94.5%	13.8 - 25.0	0.778	0 - 3.07



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.2	91.0%	13.3 - 25.8	0.707	0 - 3.87
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.1	95.5%	13.4 - 25.0	0.919	0 - 3.57
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	19.2	96.0%	13.8 - 25.7	0.849	0 - 3.10
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	18.8	94.0%	15.7 - 24.3	0.707	0 - 2.51
Trichloroethene	ug/L	EPA8260	06-25-99	20	<1	20.9	105%	22.0	110%	13.1 - 28.1	0.778	0 - 3.77
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	20	<2	17.0	85.0%	18.6	93.0%	7.48 - 28.7	1.13	0 - 5.06
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.9	94.5%	12.3 - 27.3	0.919	0 - 3.99
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.6	93.0%	14.2 - 24.4	0.707	0 - 3.05
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.7	93.5%	15.0 - 23.6	0.778	0 - 2.62
Vinyl acetate	ug/L	EPA8260	06-25-99	20	<1	16.9	84.5%	19.9	99.5%	7.20 - 30.5	2.12	0 - 7.42
Vinyl chloride	ug/L	EPA8260	06-25-99	20	<0.5	17.5	87.5%	19.1	95.5%	11.7 - 27.5	1.13	0 - 5.40
Xylene	ug/L	EPA8260	06-25-99	60	<0.5	55.1	91.8%	58.0	96.7%	43.6 - 73.6	2.05	0 - 7.52



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	Concentration
Silver	mg/L	EPA6020	06-23-99	<0.00005
Arsenic	mg/L	EPA6020	06-23-99	<0.00005
Barium	mg/L	EPA6020	06-23-99	<0.0004
Beryllium	mg/L	EPA6020	06-23-99	<0.0001
Cadmium	mg/L	EPA6020	06-23-99	<0.00005
Cobalt	mg/L	EPA6020	06-23-99	<0.0001
Chromium	mg/L	EPA6020	06-23-99	<0.0002
Copper	mg/L	EPA6020	06-23-99	<0.0002
Nickel	mg/L	EPA6020	06-23-99	<0.0002
Lead	mg/L	EPA6020	06-23-99	<0.0001
Antimony	mg/L	EPA6020	06-23-99	<0.0002
Selenium	mg/L	EPA6020	06-23-99	<0.0003
Thallium	mg/L	EPA6020	06-23-99	<0.0001
Vanadium	mg/L	EPA6020	06-23-99	<0.00006
Zinc	mg/L	EPA6020	06-23-99	<0.0007
Acetone	ug/L	EPA8260	06-25-99	<10
Acrylonitrile	ug/L	EPA8260	06-25-99	<1
Benzene	ug/L	EPA8260	06-25-99	<0.5
Bromobenzene	ug/L	EPA8260	06-25-99	<1
Bromochloromethane	ug/L	EPA8260	06-25-99	<1
Bromodichloromethane	ug/L	EPA8260	06-25-99	<1
Bromoform	ug/L	EPA8260	06-25-99	<1
Bromomethane	ug/L	EPA8260	06-25-99	<5
n-butylbenzene	ug/L	EPA8260	06-25-99	<1
sec-butylbenzene	ug/L	EPA8260	06-25-99	<1
tert-butylbenzene	ug/L	EPA8260	06-25-99	<1
Carbon disulfide	ug/L	EPA8260	06-25-99	<5
Carbon tetrachloride	ug/L	EPA8260	06-25-99	<1
Chlorobenzene	ug/L	EPA8260	06-25-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	Concentration
Chloroethane	ug/L	EPA8260	06-25-99	<1
Chloroform	ug/L	EPA8260	06-25-99	<1
Chloromethane	ug/L	EPA8260	06-25-99	<5
2-chlorotoluene	ug/L	EPA8260	06-25-99	<0.5
4-chlorotoluene	ug/L	EPA8260	06-25-99	<0.5
Dibromochloromethane	ug/L	EPA8260	06-25-99	<1
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-25-99	<1
1,2-dibromoethane	ug/L	EPA8260	06-25-99	<1
Dibromomethane	ug/L	EPA8260	06-25-99	<1
o-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
m-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	<2
t-1,4-dichloro-2-butene	ug/L	EPA8260	06-25-99	<10
1,1-dichloroethane	ug/L	EPA8260	06-25-99	<1
1,2-dichloroethane	ug/L	EPA8260	06-25-99	<1
1,1-dichloroethene	ug/L	EPA8260	06-25-99	<1
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	<1
t-1,2-dichloroethene	ug/L	EPA8260	06-25-99	<2
1,2-dichloroethene	ug/L	EPA8260	06-25-99	<1
1,2-dichloropropane	ug/L	EPA8260	06-25-99	<1
1,3-dichloropropane	ug/L	EPA8260	06-25-99	<1
2,2-dichloropropane	ug/L	EPA8260	06-25-99	<3
1,1-dichloropropene	ug/L	EPA8260	06-25-99	<0.5
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	<1
trans-1,3-dichloropropene	ug/L	EPA8260	06-25-99	<1
Ethylbenzene	ug/L	EPA8260	06-25-99	<0.5
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	<1
2-Hexanone	ug/L	EPA8260	06-25-99	<10



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	Concentration
Hexachloroethane	ug/L	EPA8260	06-25-99	<1
Isopropylbenzene	ug/L	EPA8260	06-25-99	<1
4-isopropyltoluene	ug/L	EPA8260	06-25-99	<1
Methylene chloride	ug/L	EPA8260	06-25-99	<1
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	<1
2-butanone	ug/L	EPA8260	06-25-99	<10
Methyl iodide	ug/L	EPA8260	06-25-99	<1
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	<10
Naphthalene	ug/L	EPA8260	06-25-99	<1
Propylbenzene	ug/L	EPA8260	06-25-99	<1
Styrene	ug/L	EPA8260	06-25-99	<1
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	<1
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	<1
Tetrachloroethene	ug/L	EPA8260	06-25-99	<1
Toluene	ug/L	EPA8260	06-25-99	<0.5
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	<1
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	<1
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	<1
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	<1
Trichloroethene	ug/L	EPA8260	06-25-99	<1
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	<2
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	<1
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	<1
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	<1
Vinyl acetate	ug/L	EPA8260	06-25-99	<1
Vinyl chloride	ug/L	EPA8260	06-25-99	<0.5
Xylene	ug/L	EPA8260	06-25-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.081 - 0.120
Arsenic	mg/L	EPA6020	06-23-99	0.100	0.098	98.4%	0.086 - 0.114
Barium	mg/L	EPA6020	06-23-99	0.100	0.108	108%	0.086 - 0.115
Beryllium	mg/L	EPA6020	06-23-99	0.100	0.104	104%	0.067 - 0.132
Cadmium	mg/L	EPA6020	06-23-99	0.100	0.099	99.4%	0.088 - 0.113
Cobalt	mg/L	EPA6020	06-23-99	0.100	0.105	105%	0.086 - 0.116
Chromium	mg/L	EPA6020	06-23-99	0.100	0.107	107%	0.084 - 0.115
Copper	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.081 - 0.118
Nickel	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.083 - 0.115
Lead	mg/L	EPA6020	06-23-99	0.100	0.091	91.4%	0.085 - 0.119
Antimony	mg/L	EPA6020	06-23-99	0.100	0.093	93.4%	0.086 - 0.111
Selenium	mg/L	EPA6020	06-23-99	0.100	0.106	106%	0.084 - 0.116
Thallium	mg/L	EPA6020	06-23-99	0.100	0.092	92.2%	0.085 - 0.119
Vanadium	mg/L	EPA6020	06-23-99	0.100	0.108	108%	0.085 - 0.116
Zinc	mg/L	EPA6020	06-23-99	0.100	0.106	106%	0.080 - 0.119
Acetone	ug/L	EPA8260	06-25-99	100	85.9	85.9%	39.5 - 163
Benzene	ug/L	EPA8260	06-25-99	10.0	9.71	97.1%	6.75 - 13.2
Bromobenzene	ug/L	EPA8260	06-25-99	10.0	9.81	98.1%	7.47 - 12.1
Bromochloromethane	ug/L	EPA8260	06-25-99	10.0	9.31	93.1%	7.65 - 11.7
Bromodichloromethane	ug/L	EPA8260	06-25-99	10.0	8.90	89.0%	8.25 - 11.6
Bromoform	ug/L	EPA8260	06-25-99	10.0	8.03	80.3%	6.66 - 12.7
Bromomethane	ug/L	EPA8260	06-25-99	10.0	8.86	88.6%	5.99 - 14.2
n-butylbenzene	ug/L	EPA8260	06-25-99	10.0	9.93	99.3%	7.08 - 12.0
sec-butylbenzene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.45 - 12.2
tert-butylbenzene	ug/L	EPA8260	06-25-99	10.0	10.6	106%	6.94 - 13.0
Carbon disulfide	ug/L	EPA8260	06-25-99	10.0	9.65	96.5%	5.01 - 16.0
Carbon tetrachloride	ug/L	EPA8260	06-25-99	10.0	8.51	85.1%	6.45 - 13.4
Chlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.69	96.9%	8.58 - 11.6
Chloroethane	ug/L	EPA8260	06-25-99	10.0	10.7	107%	5.39 - 14.5
Chloroform	ug/L	EPA8260	06-25-99	10.0	11.0	110%	7.49 - 13.1
Chloromethane	ug/L	EPA8260	06-25-99	10.0	9.23	92.3%	3.89 - 14.0
2-chlorotoluene	ug/L	EPA8260	06-25-99	10.0	10.7	107%	7.02 - 12.6
4-chlorotoluene	ug/L	EPA8260	06-25-99	10.0	9.46	94.6%	7.15 - 12.4
Dibromochloromethane	ug/L	EPA8260	06-25-99	10.0	8.62	86.2%	7.87 - 11.7
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-25-99	10.0	8.39	83.9%	5.94 - 12.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-25-99	10.0	9.14	91.4%	8.20 - 11.4
Dibromomethane	ug/L	EPA8260	06-25-99	10.0	9.17	91.7%	8.34 - 11.9
o-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.49	94.9%	7.86 - 12.1
m-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.39	93.9%	7.98 - 11.9
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.41	94.1%	7.83 - 12.1
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	10.0	8.26	82.6%	4.22 - 13.5
1,1-dichloroethane	ug/L	EPA8260	06-25-99	10.0	8.35	83.5%	7.10 - 13.1
1,2-dichloroethane	ug/L	EPA8260	06-25-99	10.0	9.11	91.1%	7.76 - 12.4
1,1-dichloroethene	ug/L	EPA8260	06-25-99	10.0	9.69	96.9%	6.33 - 13.0
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	10.0	10.8	108%	7.83 - 11.9
t-1,2-dichloroethene	ug/L	EPA8260	06-25-99	10.0	9.47	94.7%	6.61 - 12.9
1,2-dichloroethene	ug/L	EPA8260	06-25-99	20.0	20.3	102%	14.3 - 25.3
1,2-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.50	95.0%	7.56 - 12.2
1,3-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.51	95.1%	8.38 - 11.5
2,2-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.26	92.6%	2.87 - 13.4
1,1-dichloropropene	ug/L	EPA8260	06-25-99	10.0	8.56	85.6%	7.31 - 11.7
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	10.0	9.08	90.8%	7.18 - 11.8
trans-1,3,-dichloropropene	ug/L	EPA8260	06-25-99	10.0	8.37	83.7%	6.99 - 12.1
Ethylbenzene	ug/L	EPA8260	06-25-99	10.0	9.83	98.3%	7.48 - 12.5
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.25 - 12.5
2-Hexanone	ug/L	EPA8260	06-25-99	10.0	8.33	83.3%	6.00 - 13.7
Isopropylbenzene	ug/L	EPA8260	06-25-99	10.0	9.89	98.9%	6.75 - 13.7
4-isopropyltoluene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.62 - 11.9
Methylene chloride	ug/L	EPA8260	06-25-99	10.0	9.97	99.7%	6.48 - 13.9
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	10.0	8.50	85.0%	4.59 - 14.7
2-butanone	ug/L	EPA8260	06-25-99	10.0	9.13	91.3%	4.38 - 16.0
Methyl iodide	ug/L	EPA8260	06-25-99	10.0	9.40	94.0%	5.94 - 16.3
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	10.0	10.1	101%	4.26 - 13.1
Naphthalene	ug/L	EPA8260	06-25-99	10.0	8.49	84.9%	3.63 - 14.7
Propylbenzene	ug/L	EPA8260	06-25-99	10.0	10.3	103%	7.16 - 12.3
Styrene	ug/L	EPA8260	06-25-99	10.0	8.53	85.3%	7.76 - 13.0
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	10.0	9.39	93.9%	7.87 - 11.8
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	10.0	9.44	94.4%	6.21 - 12.8
Tetrachloroethene	ug/L	EPA8260	06-25-99	20.0	18.3	91.5%	11.3 - 27.9
Toluene	ug/L	EPA8260	06-25-99	10.0	9.75	97.5%	7.07 - 13.1



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	10.0	8.60	86.0%	5.43 - 13.4
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	10.0	8.70	87.0%	5.52 - 12.8
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	10.0	9.63	96.3%	7.65 - 12.4
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	10.0	9.08	90.8%	8.46 - 11.5
Trichloroethene	ug/L	EPA8260	06-25-99	10.0	10.9	109%	6.36 - 14.6
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	10.0	9.50	95.0%	1.48 - 15.6
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	10.0	9.73	97.3%	6.45 - 13.5
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.52 - 12.2
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	10.0	9.99	99.9%	7.29 - 12.3
Vinyl acetate	ug/L	EPA8260	06-25-99	10.0	9.83	98.3%	2.89 - 16.5
Vinyl chloride	ug/L	EPA8260	06-25-99	10.0	8.39	83.9%	5.44 - 14.0
Xylene	ug/L	EPA8260	06-25-99	30.0	29.4	98.0%	21.7 - 38.3



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Silver QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-140AS 9AFS30Z2192 14-140AS	827 909 827	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-03-98 04-19-99 11-03-98	05-03-99 12-31-99 05-03-99	2.66	±2.00	0.935	0.078	1.14	0.358
Arsenic QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99	4.77 4.18 4.77	>1.67 ±1.98 >1.67	0.973 0.978 0.973	0.063 0.089 0.063	1.03 1.21 1.03	0.050 0.375 0.050
Barium QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	827 909 827	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Beryllium QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LMS EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LMS EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Cadmium QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Cobalt QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99	8.01	>1.69	1.01	0.039	0.962	0.029
Chromium QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Copper QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Nickel QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-03-98 04-19-99 11-03-98	05-03-99 12-31-99 05-03-99						
Lead QCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Antimony QCCS	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Selenium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Thallium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	08-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	08-31-99						
Vanadium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99			1.01	0.149	0.995	0.020
QCCS	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99			1.01	0.149	0.995	0.020
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99						
Zinc	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Acetone	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Benzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Bromobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Bromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Bromodichloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Bromoform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Bromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045
n-butylbenzene	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
sec-butylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
tert-butylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Carbon disulfide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Carbon tetrachloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Chlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Chloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Chloroform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Chloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
2-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
4-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033
Dibromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
1,2-dibromo-3-chloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
1,2-dibromoethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Dibromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
o-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
m-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Dichlorodifluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
1,1-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.85	>1.65	0.954	0.086	1.10	0.109
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
1,2-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
1,1-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.77	>1.65	0.942	0.093	1.08	0.062
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
cis-1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
Standard							Lot									
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069
t-1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
1,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
1,3-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
2,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.47	±2.01	1.04	0.168	0.752	0.174
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
1,1-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
cis-1,3-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
trans-1,3-dichloropropene	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Ethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Hexachlorobutadiene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	8.93	±2.03	0.736	0.125	1.04	0.045
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
2-Hexanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Control Mean	Control Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087
Isopropylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
4-isopropyltoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Methylene chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.36	±2.06	1.00	0.061	1.18	0.094
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Methyl-tert-butylether	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
2-butanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Methyl iodide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99	5.87	±2.00	1.00	0.051	1.17	0.157
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
4-methyl-2-pentanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Naphthalene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Propylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Styrene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
1,1,1,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.28	>1.76	0.962	0.049	1.02	0.036
QCCS																



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike																
1,1,2,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Tetrachloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	2.73	±2.07	0.949	0.045	1.10	0.175
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Toluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
1,2,3-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	12.2	±2.01	1.02	0.064	0.723	0.107
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
1,2,4-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
1,1,1-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
1,1,2-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Trichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Trichlorofluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
1,2,3-trichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
1,2,4-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Resource Recover
P.O. Number: 110456
Date Sampled: 16-Jun-99
Lab Numbers: 8145 - 8145

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
Standard							Lot									
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002
1,3,5-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Vinyl acetate	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Vinyl chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
M&P-Xylene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
EPA6020 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
EPA8260 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
Surrogate Spike1	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.01	0.083		
Surrogate Spike2	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.00	0.034		
Surrogate Spike3	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			0.989	0.043		



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: RES REC ASHCELL
DATE: 07/19/99

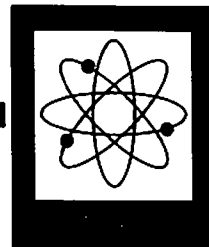
FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 11 1999
SOUTHWEST DISTRICT
TAMPA

SAMPLE NUMBER- 80608 SAMPLE ID- ASH CELL RAINWATER RUNOFF SAMPLE MATRIX- OT
DATE SAMPLED- 06/17/99 LOCATION- RAINWATER RUNOFF TIME SAMPLED- 0800
DATE RECEIVED- 06/17/99 SAMPLER- S VAN DUNK RECEIVED BY- MAS
TIME RECEIVED- 1335 DELIVERED BY- S VAN DUNK TYPE SAMPLE- Grab

Page 2 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			06/24/99	1230	IF	2.57	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			06/18/99	1430	DN	1	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			06/22/99	1530	TER	12.0	mg/L	
CHLOROPHYLL A	SM 10200H	06/21/99	TER	06/22/99	1000	JKH	1.22	mg/M3	
HARDNESS AS CaCO3 BY CALC	SM2340B			06/21/99	1600	TER	24.8	mg/L CaCo3	
AMMONIA NITROGEN	SM4500NH3H			06/18/99	1530	IF	<0.03	mg/L	
UN-IONIZED AMMONIA N	DEP SOP			07/15/99	1100	CEM	<0.02	mg/L	
KJELDAHL NITROGEN	4500NorgB			06/24/99	1200	TER	0.49	mg/L	
NITRATE	SM4500NO3F			06/22/99	1500	IF	0.53	mg/L	
TOTAL NITROGEN	CALC.			07/15/99	1100	CEM	1.02	MG/L	
PH,LAB	SM4500H+ B			06/21/99	1600	JKH	7.32	std units	
TEMPERATURE, LAB	SM2550B			06/19/99	1500	JK	19.5	degrees C	
TOTAL PHOSPHOROUS	SM4500P B			06/24/99	1300	DN	0.05	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			06/21/99	1500	JKH	10	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			06/18/99	1430	DN	1	mg/L	
SPEC.CONDUCTIVITY	SM2510B			06/21/99	1600	JKH	21	umhos/cm	
TURBIDITY	SM 2130 B			06/21/99	1600	JKH	1.49	NTU	
COPPER,TOTAL	SM3113B	06/18/99	TER	06/21/99	1005	TER	<0.02	mg/L	
IRON,TOTAL	SM 3111B	06/21/99	TER	06/21/99	0950	TER	0.03	mg/L	
MERCURY,TOTAL	SM3112B			06/22/99	1110	TER	0.0008	mg/L	
ZINC,TOTAL	SM3111B	06/18/99	TER	06/21/99	1015	TER	0.07	mg/L	

LABORATORY DIRECTOR



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Pasco Co. Utilities Env. Lab
8864 Government Dr.
New Port Richey, FL 34654

Date Reported : Jun28 1999
Project Number : Res Rec Rain Wat
PO Number : 110456
FDHRSW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

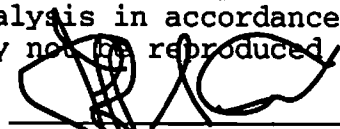
Ash CELL Rain Water
Runoff

For: Appendix I
Date Sampled: Jun17 1999 Date Received: Jun18 1999 Lab Number : 8161
REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8161 ACRWR
		Detection			
		Limit			
Silver	mg/L	.00005	99.9	5.98	<5e-05
Arsenic	mg/L	.00005	102.	4.87	.00047
Barium	mg/L	.00040	100.	4.99	.00538
Beryllium	mg/L	.00010	106.	3.47	<.0001
Cadmium	mg/L	.00005	99.7	5.01	.00037
Cobalt	mg/L	.00010	104.	3.32	.00035
Chromium	mg/L	.00020	105.	5.08	.00274
Copper	mg/L	.00020	100.	4.41	0.0116
Nickel	mg/L	.00020	100.	3.83	.00639
Lead	mg/L	.00010	100.	5.95	.00291
Antimony	mg/L	.00020	105.	1.45	.00285
Selenium	mg/L	.00030	102.	5.34	<.0003
Thallium	mg/L	.00010	103.	4.55	<.0001
Vanadium	mg/L	.00006	109.	4.79	.00416
Zinc	mg/L	.00070	96.7	4.52	0.0509
Dilution_Factor		-	-	-	1.00
Acetone	ug/L	10.0	92.0	1.26	<10.0
Acrylonitrile	ug/L	1.00			<1.00
Benzene	ug/L	0.500	95.9	5.12	<0.500
Bromobenzene	ug/L	1.00	88.0	5.87	<1.00
Bromochloromethane	ug/L	1.00	94.4	3.37	<1.00
Bromodichloromethane	ug/L	1.00	89.6	5.88	<1.00
Bromoform	ug/L	1.00	81.6	4.77	<1.00
Bromomethane	ug/L	5.00	97.1	5.72	<5.00
n-butylbenzene	ug/L	1.00	92.6	5.84	<1.00
sec-butylbenzene	ug/L	1.00	90.1	6.05	<1.00

Data Release Authorization

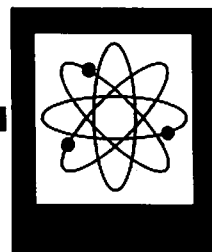
Sample integrity certified prior to analysis. Deficiencies are in QA Report Sec.4
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**CHEMICAL
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Date Reported : Jun28 1999
Project Number : Res Rec Rain Wat
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FDHRSW Number : 83139
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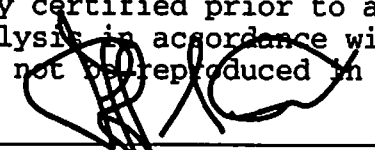
For: Appendix I

Date Sampled: Jun17 1999 Date Received: Jun18 1999 Lab Number : 8161
REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8161 ACRWR
		Detection Limit			
tert-butlybenzene	ug/L	1.00	88.4	6.28	<1.00
Carbon disulfide	ug/L	5.00	99.8	2.34	<5.00
Carbon tetrachloride	ug/L	1.00	98.1	6.31	<1.00
Chlorobenzene	ug/L	0.500	93.9	5.20	<0.500
Chloroethane	ug/L	1.00	103.	3.15	<1.00
Chloroform	ug/L	1.00	101.	6.47	<1.00
Chloromethane	ug/L	5.00	97.6	1.63	<5.00
2-chlorotoluene	ug/L	0.500	93.6	5.48	<0.500
4-chlorotoluene	ug/L	0.500	85.3	5.14	<0.500
Dibromochloromethane	ug/L	1.00	93.1	4.06	<1.00
1,2-dibromo-3-chloro	ug/L	1.00	90.7	2.34	<1.00
1,2-dibromoethane	ug/L	1.00	92.4	4.09	<1.00
Dibromomethane	ug/L	1.00	92.3	4.52	<1.00
o-dichlorobenzene	ug/L	0.500	88.7	5.50	<0.500
m-dichlorobenzene	ug/L	0.500	88.3	5.89	<0.500
Para-dichlorobenzene	ug/L	0.500	88.7	5.06	<0.500
Dichlorodifluorometh	ug/L	2.00	88.7	4.38	<2.00
t-1,4-dichloro-2-but	ug/L	10.0			<10.0
1,1-dichloroethane	ug/L	1.00	87.1	3.77	<1.00
1,2-dichloroethane	ug/L	1.00	92.9	4.49	<1.00
1,1-dichloroethene	ug/L	1.00	95.2	8.25	<1.00
cis-1,2-dichloroethe	ug/L	1.00	96.2	6.07	<1.00
t-1,2-dichloroethene	ug/L	2.00	98.3	.500	<2.00
1,2-dichloroethene	ug/L	1.00	97.2	3.25	<1.00
1,2-dichloropropane	ug/L	1.00	92.4	4.10	<1.00
1,3-dichloropropane	ug/L	1.00	94.6	4.86	<1.00

Data Release Authorization

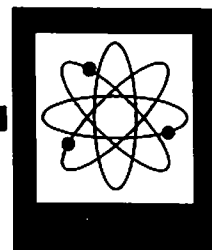
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For: Appendix I

Date Sampled: Jun17 1999 Date Received: Jun18 1999 Lab Number : 8161
REPORT OF ANALYSIS

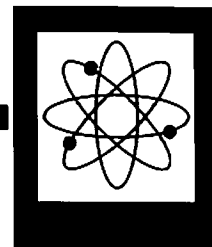
Parameter	Unit	Method	%ACC	%PRC	8161 ACRWR
		Detection Limit			
2,2-dichloropropane	ug/L	3.00	86.8	4.44	<3.00
1,1-dichloropropene	ug/L	0.500	86.7	6.37	<0.500
cis-1,3-dichloroprop	ug/L	1.00	92.1	4.91	<1.00
trans-1,3,-dichlorop	ug/L	1.00	93.6	4.57	<1.00
Ethylbenzene	ug/L	0.500	98.1	6.52	<0.500
Hexachlorobutadiene	ug/L	1.00	88.9	9.55	<1.00
2-Hexanone	ug/L	10.0	92.7	4.00	<10.0
Hexachloroethane	ug/L	1.00			<1.00
Isopropylbenzene	ug/L	1.00	87.5	7.27	<1.00
4-isopropyltoluene	ug/L	1.00	91.5	5.99	<1.00
Methylene chloride	ug/L	1.00	87.6	.080	<1.00
Methyl-tert-butyleth	ug/L	1.00	88.3	3.08	<1.00
2-butanone	ug/L	10.0	89.9	1.65	<10.0
Methyl_iodide	ug/L	1.00	83.9	5.14	<1.00
4-methyl-2-pentanon	ug/L	10.0	104.	2.59	<10.0
Naphthalene	ug/L	1.00	95.0	5.59	<1.00
propylbenzene	ug/L	1.00	93.0	7.46	<1.00
Styrene	ug/L	1.00	86.6	5.47	<1.00
1,1,1,2-tetrachloroe	ug/L	1.00	98.6	6.24	<1.00
1,1,2,2-tetrachloroe	ug/L	1.00	81.9	2.51	<1.00
Tetrachloroethene	ug/L	1.00	110.	6.34	<1.00
Toluene	ug/L	0.500	94.6	5.61	<0.500
1,2,3-trichlorobenze	ug/L	1.00	89.4	7.48	<1.00
1,2,4-trichlorobenze	ug/L	1.00	94.4	6.75	<1.00
1,1,1-trichloroethan	ug/L	1.00	96.8	6.80	<1.00
1,1,2-trichloroethan	ug/L	1.00	92.9	4.72	<1.00

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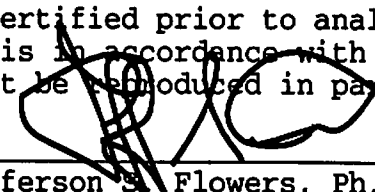
Date Sampled: Jun17 1999 Date Received: Jun18 1999 Lab Number : 8161

REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8161 ACRWR
					Detection Limit
Trichloroethene	ug/L	1.00	99.2	6.13	<1.00
Trichlorofluorometha	ug/L	2.00	86.7	5.88	<2.00
1,2,3-trichloropropa	ug/L	1.00	87.6	4.72	<1.00
1,2,4-trimethylbenze	ug/L	1.00	89.3	6.97	<1.00
1,3,5-trimethylbenze	ug/L	1.00	89.1	5.48	<1.00
Vinyl acetate	ug/L	1.00	112.	1.93	<1.00
Vinyl chloride	ug/L	0.500	94.2	13.0	<0.500
Xylene	ug/L	0.500	96.2	5.81	<0.500
Surrogate_Spike1	ug/L	1.00	95.6	.040	28.5
Surrogate_Spike2	ug/L	1.00	100.	.350	28.1
Surrogate_Spike3	ug/L	1.00	98.8	.950	23.9
-	-	-	-	-	-

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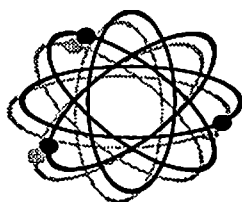
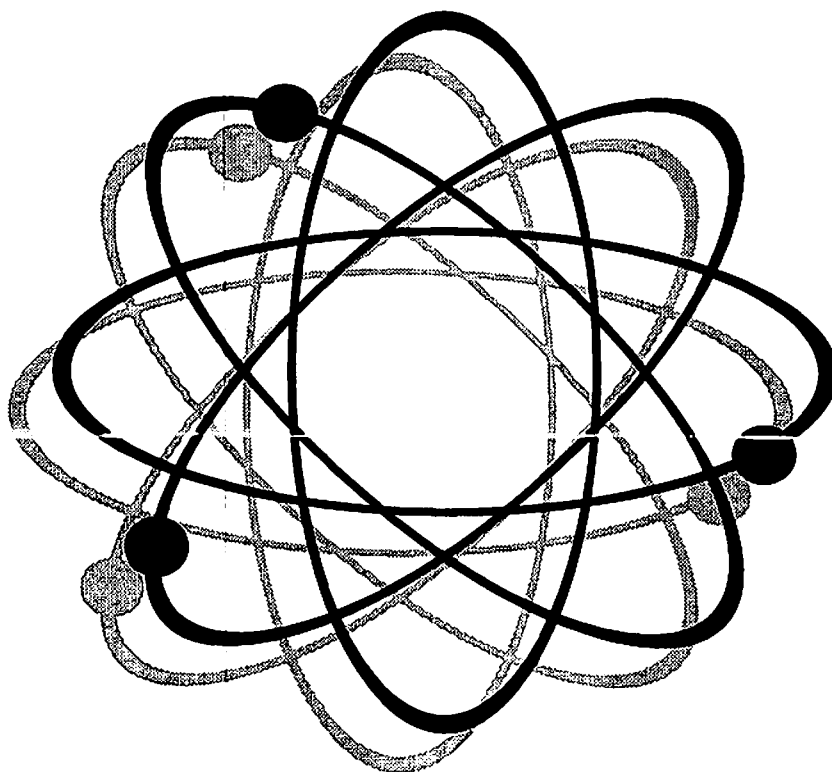
3609		FLOWERS CHEMICAL LABORATORIES													
		ANALYTICAL RESULTS FORM										HRS Number 83139			
Parameter	Symbol	Unit	ACRWR 8161									QA		Section	
												Method	MDL	%RSD	%Rec
Silver	*	mg/L	<0.00005U									EPA6020	0.00005	5.9852078	99.9515
Arsenic	*	mg/L	0.000470									EPA6020	0.00005	4.8794552	102.1825
Barium	*	mg/L	0.00538									EPA6020	0.0004	4.9997500	100.35
Beryllium	*	mg/L	<0.0001U									EPA6020	0.0001	3.4704147	106.25
Cadmium	*	mg/L	0.000370									EPA6020	0.00005	5.0177903	99.70725
Cobalt	*	mg/L	0.000347									EPA6020	0.0001	3.3237774	104.396
Chromium	*	mg/L	0.00274									EPA6020	0.0002	5.0801133	105.18
Copper	*	mg/L	0.0116									EPA6020	0.0002	4.4137444	100.9475
Nickel	*	mg/L	0.00639									EPA6020	0.0002	3.8383622	100.62
Lead	*	mg/L	0.00291									EPA6020	0.0001	5.9564329	100.5
Antimony	*	mg/L	0.00285									EPA6020	0.0002	1.4524478	105.2725
Selenium	*	mg/L	<0.0003U									EPA6020	0.0003	5.3498584	102.25
Thallium	*	mg/L	<0.0001U									EPA6020	0.0001	4.5594909	103.9365
Vanadium	*	mg/L	0.00416									EPA6020	0.00006	4.7939098	109.2
Zinc	*	mg/L	0.0509									EPA6020	0.0007	4.5266278	96.775
Dilution Factor	*	#	1									EPA5030	1		
Acetone	*	ug/L	<10U									EPA8260	10	1.26	92
Acrylonitrile	*	ug/L	<1U									EPA8260	1		
Benzene	*	ug/L	<0.5U									EPA8260	0.5	5.12	95.9
Bromobenzene	*	ug/L	<1U									EPA8260	1	5.87	88
Bromochloromethane	*	ug/L	<1U									EPA8260	1	3.37	94.4
Bromodichloromethane	*	ug/L	<1U									EPA8260	1	5.88	89.8
Bromofarm	*	ug/L	<1U									EPA8260	1	4.77	81.6
Bromomethane	*	ug/L	<5U									EPA8260	5	5.72	97.1
n-butylbenzene	*	ug/L	<1U									EPA8260	1	5.84	92.6
sec-butylbenzene	*	ug/L	<1U									EPA8260	1	6.05	90.1
tert-butylbenzene	*	ug/L	<1U									EPA8260	1	6.28	88.4
Carbon disulfide	*	ug/L	<5U									EPA8260	5	2.34	99.8
Carbon tetrachloride	*	ug/L	<1U									EPA8260	1	6.31	98.1
Chlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	5.2	93.9
Chloroethane	*	ug/L	<1U									EPA8260	1	3.15	103
Chloroform	*	ug/L	<1U									EPA8260	1	6.47	101
Chloromethane	*	ug/L	<5U									EPA8260	5	1.63	97.6
2-chlorotoluene	*	ug/L	<0.5U									EPA8260	0.5	5.48	93.6
4-chlorotoluene	*	ug/L	<0.5U									EPA8260	0.5	5.14	85.3
Dibromochloromethane	*	ug/L	<1U									EPA8260	1	4.06	93.1
1,2-dibromo-3-chloroprop	*	ug/L	<1U									EPA8260	1	2.34	90.7
1,2-dibromoethane	*	ug/L	<1U									EPA8260	1	4.09	92.4
Dibromomethane	*	ug/L	<1U									EPA8260	1	4.52	92.3
o-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	5.5	88.7
m-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	5.89	88.3
Para-dichlorobenzene	*	ug/L	<0.5U									EPA8260	0.5	5.06	88.7
Dichlorodifluoromethane	*	ug/L	<2U									EPA8260	2	4.38	88.7
t-1,4-dichloro-2-butene	*	ug/L	<10U									EPA8260	10		
1,1-dichloroethane	*	ug/L	<1U									EPA8260	1	3.77	87.1
1,2-dichloroethane	*	ug/L	<1U									EPA8260	1	4.49	92.9
1,1-dichloroethene	*	ug/L	<1U									EPA8260	1	8.25	95.2
cis-1,2-dichloroethene	*	ug/L	<1U									EPA8260	1	6.07	96.2
t-1,2-dichloroethene	*	ug/L	<2U									EPA8260	2	0.504	98.3
1,2-dichloroethene	*	ug/L	<1U									EPA8260	1	3.25	97.2

1,2-dichloropropane	*	ug/L	<1U									EPA8260	1	4.1	92.4	CLS	06-23-99
1,3-dichloropropane	*	ug/L	<1U									EPA8260	1	4.86	94.6	CLS	06-23-99
2,2-dichloropropane	*	ug/L	<3U									EPA8260	3	4.44	86.8	CLS	06-23-99
1,1-dichloropropene	*	ug/L	<0.5U									EPA8260	0.5	6.37	86.7	CLS	06-23-99
cis-1,3-dichloropropene	*	ug/L	<1U									EPA8260	1	4.91	92.1	CLS	06-23-99
trans-1,3-dichloropropene	*	ug/L	<1U									EPA8260	1	4.57	93.6	CLS	06-23-99
Ethylbenzene	*	ug/L	<0.5U									EPA8260	0.5	6.52	98.1	CLS	06-23-99
Hexachlorobutadiene	*	ug/L	<1U									EPA8260	1	9.55	88.9	CLS	06-23-99
2-Hexanone	*	ug/L	<10U									EPA8260	10	4	92.7	CLS	06-23-99
Hexachloroethane	*	ug/L	<1U									EPA8260	1			CLS	06-23-99
Isopropylbenzene	*	ug/L	<1U									EPA8260	1	7.27	87.5	CLS	06-23-99
4-Isopropyltoluene	*	ug/L	<1U									EPA8260	1	5.99	91.5	CLS	06-23-99
Methylene chloride	*	ug/L	<1U									EPA8260	1	0.0807	87.6	CLS	06-23-99
Methyl-tert-butylether	*	ug/L	<1U									EPA8260	1	3.08	88.3	CLS	06-23-99
2-butanone	*	ug/L	<10U									EPA8260	10	1.65	89.9	CLS	06-23-99
Methyl iodide	*	ug/L	<1U									EPA8260	1	5.14	83.9	CLS	06-23-99
4-methyl-2-pentanone	*	ug/L	<10U									EPA8260	10	2.59	104	CLS	06-23-99
Naphthalene	*	ug/L	<1U									EPA8260	1	5.59	95	CLS	06-23-99
Propylbenzene	*	ug/L	<1U									EPA8260	1	7.48	93	CLS	06-23-99
Styrene	*	ug/L	<1U									EPA8260	1	5.47	86.6	CLS	06-23-99
1,1,1,2-tetrachloroethane	*	ug/L	<1U									EPA8260	1	6.24	98.6	CLS	06-23-99
1,1,2,2-tetrachloroethane	*	ug/L	<1U									EPA8260	1	2.51	81.9	CLS	06-23-99
Tetrachloroethene	*	ug/L	<1U									EPA8260	1	6.34	110	CLS	06-23-99
Toluene	*	ug/L	<0.5U									EPA8260	0.5	5.61	94.6	CLS	06-23-99
1,2,3-trichlorobenzene	*	ug/L	<1U									EPA8260	1	7.48	89.4	CLS	06-23-99
1,2,4-trichlorobenzene	*	ug/L	<1U									EPA8260	1	6.75	94.4	CLS	06-23-99
1,1,1-trichloroethane	*	ug/L	<1U									EPA8260	1	6.8	96.8	CLS	06-23-99
1,1,2-trichloroethane	*	ug/L	<1U									EPA8260	1	4.72	92.9	CLS	06-23-99
Trichloroethene	*	ug/L	<1U									EPA8260	1	6.13	99.2	CLS	06-23-99
Trichlorofluoromethane	*	ug/L	<2U									EPA8260	2	5.88	86.7	CLS	06-23-99
1,2,3-trichloropropane	*	ug/L	<1U									EPA8260	1	4.72	87.6	CLS	06-23-99
1,2,4-trimethylbenzene	*	ug/L	<1U									EPA8260	1	6.97	89.3	CLS	06-23-99
1,3,5-trimethylbenzene	*	ug/L	<1U									EPA8260	1	5.48	89.1	CLS	06-23-99
Vinyl acetate	*	ug/L	<1U									EPA8260	1	1.93	112	CLS	06-23-99
Vinyl chloride	*	ug/L	<0.5U									EPA8260	0.5	13	94.2	CLS	06-23-99
Xylene	*	ug/L	<0.5U									EPA8260	0.5	5.81	96.2	CLS	06-23-99
Surrogate_Spike1	*	ug/L	28.49									EPA8260	1	0.0493	95.6	CLS	06-23-99
Surrogate_Spike2	*	ug/L	28.09									EPA8260	1	0.352	100	CLS	06-23-99
Surrogate_Spike3	*	ug/L	23.93									EPA8260	1	0.955	98.8	CLS	06-23-99
-	*	-										-	-				
Date Received: 06-18-99 Typed: 06-28-99 Sent: 06-28-99																	
Project Number	Res Rec Rain Wat																
PO Number	110456																
Date Sampled	1 06-17-99 *																
Date Analyzed	0																
Compacted	1																
Format	NormRR																
Unit Cost	Exted																
Appendix I	18500 1 *																

Quality Assurance Report

Prepared for: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
Lab Numbers: 8161 - 8161

Report date: 28-Jun-99



**FLOWERS
CHEMICAL
LABORATORIES**

**QA
Conformance
Summary**

Client:	Pasco Co. Utilities Env. Lab
Project Number:	Res Rec Rain Wat
P.O. Number:	110456
Date Sampled:	17-Jun-99
Lab Numbers:	8161 - 8161

Sample Handling

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter

Surrogate Compound Recoveries:

The recovery limits were met for all sample as shown in section 1. This represents complete success.

Accuracy / Precision:

The recovery limits were met for all compounds in the matrix spike as shown in section 2.

The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.

The RSD was met for all compounds as shown in section 2.

Method Blanks:

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were met for all compounds as shown in section 4.

Standards Traceability:

The t-test limits were exceeded for 6 calibration standards as shown in section 5.

This represents a 92.6% success rate.

The t-test limits were exceeded for 5 QCCS standards as shown in section 5. This represents a 93.8% success rate.

The t-test limits were exceeded for 7 matrix spike standards as shown in section 5.

This represents a 91.4% success rate.



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Surrogate_Spike1 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 21.8 - 34.1

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8161	ACRWR	28.5	95.0



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Surrogate_Spike2 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 22.8 - 35.6

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8161	ACRWR	28.1	93.6



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

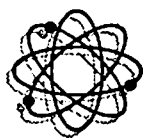
Surrogate_Spike3 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 20.6 - 34

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8161	ACRWR	23.9	79.8



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.222	0.000	0.222	100%	0.238	107%	0.133 - 0.296	0.011	0 - 0.049
Arsenic	mg/L	EPA6020	06-23-99	0.222	0.001	0.228	102%	0.216	96.7%	0.169 - 0.284	0.009	0 - 0.035
Barium	mg/L	EPA6020	06-23-99	0.222	0.016	0.239	100%	0.253	107%	0.178 - 0.300	0.010	0 - 0.036
Beryllium	mg/L	EPA6020	06-23-99	0.222	<0.000	0.236	106%	0.246	111%	0.148 - 0.316	0.007	0 - 0.045
Cadmium	mg/L	EPA6020	06-23-99	0.222	0.000	0.222	99.7%	0.209	94.2%	0.153 - 0.288	0.009	0 - 0.034
Cobalt	mg/L	EPA6020	06-23-99	0.222	0.000	0.232	104%	0.241	108%	0.150 - 0.292	0.006	0 - 0.041
Chromium	mg/L	EPA6020	06-23-99	0.222	0.001	0.235	105%	0.249	111%	0.160 - 0.284	0.010	0 - 0.031
Copper	mg/L	EPA6020	06-23-99	0.222	0.004	0.228	101%	0.217	95.9%	0.146 - 0.291	0.008	0 - 0.041
Nickel	mg/L	EPA6020	06-23-99	0.222	0.002	0.226	101%	0.236	105%	0.147 - 0.292	0.007	0 - 0.041
Lead	mg/L	EPA6020	06-23-99	0.222	<0.000	0.223	101%	0.239	108%	0.154 - 0.294	0.011	0 - 0.035
Antimony	mg/L	EPA6020	06-23-99	0.222	0.001	0.235	105%	0.239	107%	0.164 - 0.292	0.003	0 - 0.038
Selenium	mg/L	EPA6020	06-23-99	0.222	<0.0003	0.227	102%	0.214	96.3%	0.157 - 0.284	0.009	0 - 0.037
Thallium	mg/L	EPA6020	06-23-99	0.222	0.000	0.231	104%	0.243	109%	0.161 - 0.292	0.009	0 - 0.041
Vanadium	mg/L	EPA6020	06-23-99	0.222	0.007	0.249	109%	0.263	115%	0.165 - 0.310	0.010	0 - 0.046
Zinc	mg/L	EPA6020	06-23-99	0.222	0.008	0.223	96.8%	0.212	91.8%	0.130 - 0.307	0.008	0 - 0.050
Acetone	ug/L	EPA8260	06-23-99	200	<10	186	93.0%	182	91.0%	78.2 - 321	2.83	0 - 66.3
Benzene	ug/L	EPA8260	06-23-99	20	<0.5	18.5	92.5%	19.9	99.5%	12.6 - 25.7	0.990	0 - 3.93
Bromobenzene	ug/L	EPA8260	06-23-99	20	<1	16.9	84.5%	18.3	91.5%	15.1 - 23.6	0.990	0 - 2.45
Bromochloromethane	ug/L	EPA8260	06-23-99	20	<1	18.4	92.0%	19.3	96.5%	14.7 - 24.2	0.636	0 - 2.84
Bromodichloromethane	ug/L	EPA8260	06-23-99	20	<1	17.2	86.0%	18.7	93.5%	16.0 - 23.8	1.06	0 - 2.21
Bromoform	ug/L	EPA8260	06-23-99	20	<1	15.8	79.0%	16.9	84.5%	13.5 - 25.5	0.778	0 - 3.26
Bromomethane	ug/L	EPA8260	06-23-99	20	<5	18.6	93.0%	20.2	101%	13.8 - 26.1	1.13	0 - 4.44
n-butylbenzene	ug/L	EPA8260	06-23-99	20	<1	17.8	89.0%	19.3	96.5%	14.2 - 23.6	1.06	0 - 2.66
sec-butylbenzene	ug/L	EPA8260	06-23-99	20	<1	17.2	86.0%	18.8	94.0%	15.2 - 23.4	1.13	0 - 2.50
tert-butylbenzene	ug/L	EPA8260	06-23-99	20	<1	16.9	84.5%	18.5	92.5%	15.1 - 23.8	1.13	0 - 2.47
Carbon disulfide	ug/L	EPA8260	06-23-99	20	<5	20.3	102%	19.6	98.0%	8.90 - 30.9	0.495	0 - 6.29
Carbon tetrachloride	ug/L	EPA8260	06-23-99	20	<1	18.8	94.0%	20.5	103%	11.9 - 27.9	1.20	0 - 4.36
Chlorobenzene	ug/L	EPA8260	06-23-99	20	<0.5	18.1	90.5%	19.5	97.5%	16.6 - 23.2	0.990	0 - 1.81
Chloroethane	ug/L	EPA8260	06-23-99	20	<1	20.2	101%	21.1	106%	12.4 - 26.3	0.636	0 - 5.14
Chloroform	ug/L	EPA8260	06-23-99	20	<1	19.2	96.0%	21.0	105%	14.1 - 25.9	1.27	0 - 3.60
Chloromethane	ug/L	EPA8260	06-23-99	20	<5	19.3	96.5%	19.8	99.0%	10.9 - 25.9	0.354	0 - 4.27
2-chlorotoluene	ug/L	EPA8260	06-23-99	20	<0.5	18.0	90.0%	19.5	97.5%	14.9 - 23.9	1.06	0 - 2.52
4-chlorotoluene	ug/L	EPA8260	06-23-99	20	<0.5	16.4	82.0%	17.7	88.5%	14.9 - 23.4	0.919	0 - 2.21
Dibromochloromethane	ug/L	EPA8260	06-23-99	20	<1	18.1	90.5%	19.2	96.0%	15.1 - 24.5	0.778	0 - 2.64
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-23-99	20	<1	17.8	89.0%	18.4	92.0%	12.0 - 26.4	0.424	0 - 4.45



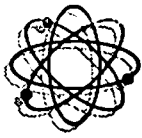
FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-23-99	20	<1	18.0	90.0%	19.0	95.0%	15.5 - 24.2	0.707	0 - 3.08
Dibromomethane	ug/L	EPA8260	06-23-99	20	<1	17.9	89.5%	19.1	95.5%	16.1 - 23.9	0.849	0 - 2.32
o-dichlorobenzene	ug/L	EPA8260	06-23-99	20	<0.5	17.1	85.5%	18.4	92.0%	14.4 - 24.4	0.919	0 - 2.72
m-dichlorobenzene	ug/L	EPA8260	06-23-99	20	<0.5	16.9	84.5%	18.4	92.0%	14.6 - 24.0	1.06	0 - 2.65
Para-dichlorobenzene	ug/L	EPA8260	06-23-99	20	<0.5	17.1	85.5%	18.4	92.0%	14.5 - 23.9	0.919	0 - 2.67
Dichlorodifluoromethane	ug/L	EPA8260	06-23-99	20	<2	17.2	86.0%	18.3	91.5%	8.82 - 26.1	0.778	0 - 4.81
1,1-dichloroethane	ug/L	EPA8260	06-23-99	20	<1	17.0	85.0%	17.9	89.5%	13.8 - 26.2	0.636	0 - 3.63
1,2-dichloroethane	ug/L	EPA8260	06-23-99	20	<1	18.0	90.0%	19.2	96.0%	14.1 - 25.5	0.849	0 - 3.48
1,1-dichloroethene	ug/L	EPA8260	06-23-99	20	<1	17.9	89.5%	20.1	101%	13.4 - 25.2	1.56	0 - 3.44
cis-1,2-dichloroethene	ug/L	EPA8260	06-23-99	20	<1	18.4	92.0%	20.1	101%	14.6 - 24.6	1.20	0 - 2.83
t-1,2-dichloroethene	ug/L	EPA8260	06-23-99	20	<2	19.6	98.0%	19.7	98.5%	12.8 - 26.1	0.071	0 - 3.63
1,2-dichloroethene	ug/L	EPA8260	06-23-99	40	<1	38.0	95.0%	39.8	99.5%	27.8 - 50.5	1.27	0 - 6.04
1,2-dichloropropane	ug/L	EPA8260	06-23-99	20	<1	17.9	89.5%	19.0	95.0%	15.1 - 24.6	0.778	0 - 2.35
1,3-dichloropropane	ug/L	EPA8260	06-23-99	20	<1	18.3	91.5%	19.6	98.0%	15.6 - 24.4	0.919	0 - 2.57
2,2-dichloropropane	ug/L	EPA8260	06-23-99	20	<3	16.8	84.0%	17.9	89.5%	5.64 - 25.8	0.778	0 - 6.50
1,1-dichloropropene	ug/L	EPA8260	06-23-99	20	<0.5	16.6	83.0%	18.1	90.5%	13.8 - 23.9	1.06	0 - 2.79
cis-1,3-dichloropropene	ug/L	EPA8260	06-23-99	20	<1	17.8	89.0%	19.1	95.5%	15.0 - 23.8	0.919	0 - 2.54
trans-1,3-dichloropropene	ug/L	EPA8260	06-23-99	20	<1	18.1	90.5%	19.3	96.5%	13.8 - 25.0	0.849	0 - 3.26
Ethylbenzene	ug/L	EPA8260	06-23-99	20	<0.5	18.7	93.5%	20.5	103%	14.6 - 24.3	1.27	0 - 2.63
Hexachlorobutadiene	ug/L	EPA8260	06-23-99	20	<1	16.6	83.0%	19.0	95.0%	15.0 - 23.7	1.70	0 - 2.85
2-Hexanone	ug/L	EPA8260	06-23-99	20	<10	18.0	90.0%	19.1	95.5%	10.8 - 28.3	0.778	0 - 3.93
Isopropylbenzene	ug/L	EPA8260	06-23-99	20	<1	16.6	83.0%	18.4	92.0%	13.4 - 24.6	1.27	0 - 3.17
4-isopropyltoluene	ug/L	EPA8260	06-23-99	20	<1	17.5	87.5%	19.1	95.5%	15.5 - 23.0	1.13	0 - 2.30
Methylene chloride	ug/L	EPA8260	06-23-99	20	<1	17.5	87.5%	17.5	87.5%	12.9 - 27.5	0.000	0 - 4.47
Methyl-tert-butylether	ug/L	EPA8260	06-23-99	20	<1	17.3	86.5%	18.1	90.5%	8.70 - 27.9	0.566	0 - 4.39
2-butanone	ug/L	EPA8260	06-23-99	20	<10	17.8	89.0%	18.2	91.0%	8.34 - 31.0	0.283	0 - 7.03
Methyl iodide	ug/L	EPA8260	06-23-99	20	<1	16.2	81.0%	17.4	87.0%	10.4 - 32.4	0.849	0 - 5.04
4-methyl-2-pentanone	ug/L	EPA8260	06-23-99	20	<10	20.4	102%	21.2	106%	7.62 - 27.9	0.566	0 - 5.01
Naphthalene	ug/L	EPA8260	06-23-99	20	<1	18.2	91.0%	19.7	98.5%	12.5 - 26.7	1.06	0 - 4.51
Propylbenzene	ug/L	EPA8260	06-23-99	20	<1	17.6	88.0%	19.6	98.0%	14.9 - 23.6	1.41	0 - 2.42
Styrene	ug/L	EPA8260	06-23-99	20	<1	16.7	83.5%	18.0	90.0%	15.0 - 26.6	0.919	0 - 2.65
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-23-99	20	<1	18.9	94.5%	20.6	103%	15.7 - 24.0	1.20	0 - 2.60
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-23-99	20	<1	16.1	80.5%	16.7	83.5%	11.7 - 25.9	0.424	0 - 4.10
Tetrachloroethene	ug/L	EPA8260	06-23-99	40	<1	41.8	105%	45.8	115%	22.3 - 55.7	2.83	0 - 10.2
Toluene	ug/L	EPA8260	06-23-99	20	<0.5	18.2	91.0%	19.7	98.5%	13.8 - 25.0	1.06	0 - 3.07



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-23-99	20	<1	16.9	84.5%	18.8	94.0%	13.3 - 25.8	1.34	0 - 3.87
1,2,4-trichlorobenzene	ug/L	EPA8260	06-23-99	20	<1	18.0	90.0%	19.8	99.0%	13.4 - 25.0	1.27	0 - 3.57
1,1,1-trichloroethane	ug/L	EPA8260	06-23-99	20	<1	18.4	92.0%	20.3	102%	13.8 - 25.7	1.34	0 - 3.10
1,1,2-trichloroethane	ug/L	EPA8260	06-23-99	20	<1	18.0	90.0%	19.2	96.0%	15.7 - 24.3	0.849	0 - 2.51
Trichloroethene	ug/L	EPA8260	06-23-99	20	<1	19.0	95.0%	20.7	104%	13.1 - 28.1	1.20	0 - 3.77
Trichlorofluoromethane	ug/L	EPA8260	06-23-99	20	<2	16.6	83.0%	18.1	90.5%	7.48 - 28.7	1.06	0 - 5.06
1,2,3-trichloropropane	ug/L	EPA8260	06-23-99	20	<1	16.9	84.5%	18.1	90.5%	12.3 - 27.3	0.849	0 - 3.99
1,2,4-trimethylbenzene	ug/L	EPA8260	06-23-99	20	<1	17.0	85.0%	18.7	93.5%	14.2 - 24.4	1.20	0 - 3.05
1,3,5-trimethylbenzene	ug/L	EPA8260	06-23-99	20	<1	17.1	85.5%	18.5	92.5%	15.0 - 23.6	0.990	0 - 2.62
Vinyl acetate	ug/L	EPA8260	06-23-99	20	<1	22.1	111%	22.7	114%	7.20 - 30.5	0.424	0 - 7.42
Vinyl chloride	ug/L	EPA8260	06-23-99	20	<0.5	17.1	85.5%	20.6	103%	11.7 - 27.5	2.47	0 - 5.40
Xylene	ug/L	EPA8260	06-23-99	60	<0.5	55.3	92.2%	60.1	100%	43.6 - 73.6	3.39	0 - 7.52



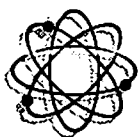
FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	Concentration
Silver	mg/L	EPA6020	06-23-99	<0.00005
Arsenic	mg/L	EPA6020	06-23-99	<0.00005
Barium	mg/L	EPA6020	06-23-99	<0.0004
Beryllium	mg/L	EPA6020	06-23-99	<0.0001
Cadmium	mg/L	EPA6020	06-23-99	<0.00005
Cobalt	mg/L	EPA6020	06-23-99	<0.0001
Chromium	mg/L	EPA6020	06-23-99	<0.0002
Copper	mg/L	EPA6020	06-23-99	<0.0002
Nickel	mg/L	EPA6020	06-23-99	<0.0002
Lead	mg/L	EPA6020	06-23-99	<0.0001
Antimony	mg/L	EPA6020	06-23-99	<0.0002
Selenium	mg/L	EPA6020	06-23-99	<0.0003
Thallium	mg/L	EPA6020	06-23-99	<0.0001
Vanadium	mg/L	EPA6020	06-23-99	<0.00006
Zinc	mg/L	EPA6020	06-23-99	<0.0007
Acetone	ug/L	EPA8260	06-23-99	<10
Acrylonitrile	ug/L	EPA8260	06-23-99	<1
Benzene	ug/L	EPA8260	06-23-99	<0.5
Bromobenzene	ug/L	EPA8260	06-23-99	<1
Bromochloromethane	ug/L	EPA8260	06-23-99	<1
Bromodichloromethane	ug/L	EPA8260	06-23-99	<1
Bromoform	ug/L	EPA8260	06-23-99	<1
Bromomethane	ug/L	EPA8260	06-23-99	<5
n-butylbenzene	ug/L	EPA8260	06-23-99	<1
sec-butylbenzene	ug/L	EPA8260	06-23-99	<1
tert-butylbenzene	ug/L	EPA8260	06-23-99	<1
Carbon disulfide	ug/L	EPA8260	06-23-99	<5
Carbon tetrachloride	ug/L	EPA8260	06-23-99	<1
Chlorobenzene	ug/L	EPA8260	06-23-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	Concentration
Chloroethane	ug/L	EPA8260	06-23-99	<1
Chloroform	ug/L	EPA8260	06-23-99	<1
Chloromethane	ug/L	EPA8260	06-23-99	<5
2-chlorotoluene	ug/L	EPA8260	06-23-99	<0.5
4-chlorotoluene	ug/L	EPA8260	06-23-99	<0.5
Dibromochloromethane	ug/L	EPA8260	06-23-99	<1
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-23-99	<1
1,2-dibromoethane	ug/L	EPA8260	06-23-99	<1
Dibromomethane	ug/L	EPA8260	06-23-99	<1
o-dichlorobenzene	ug/L	EPA8260	06-23-99	<0.5
m-dichlorobenzene	ug/L	EPA8260	06-23-99	<0.5
Para-dichlorobenzene	ug/L	EPA8260	06-23-99	<0.5
Dichlorodifluoromethane	ug/L	EPA8260	06-23-99	<2
t-1,4-dichloro-2-butene	ug/L	EPA8260	06-23-99	<10
1,1-dichloroethane	ug/L	EPA8260	06-23-99	<1
1,2-dichloroethane	ug/L	EPA8260	06-23-99	<1
1,1-dichloroethene	ug/L	EPA8260	06-23-99	<1
cis-1,2-dichloroethene	ug/L	EPA8260	06-23-99	<1
t-1,2-dichloroethene	ug/L	EPA8260	06-23-99	<2
1,2-dichloroethene	ug/L	EPA8260	06-23-99	<1
1,2-dichloropropane	ug/L	EPA8260	06-23-99	<1
1,3-dichloropropane	ug/L	EPA8260	06-23-99	<1
2,2-dichloropropane	ug/L	EPA8260	06-23-99	<3
1,1-dichloropropene	ug/L	EPA8260	06-23-99	<0.5
cis-1,3-dichloropropene	ug/L	EPA8260	06-23-99	<1
trans-1,3,-dichloropropene	ug/L	EPA8260	06-23-99	<1
Ethylbenzene	ug/L	EPA8260	06-23-99	<0.5
Hexachlorobutadiene	ug/L	EPA8260	06-23-99	<1
2-Hexanone	ug/L	EPA8260	06-23-99	<10



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	Concentration
Hexachloroethane	ug/L	EPA8260	06-23-99	<1
Isopropylbenzene	ug/L	EPA8260	06-23-99	<1
4-isopropyltoluene	ug/L	EPA8260	06-23-99	<1
Methylene chloride	ug/L	EPA8260	06-23-99	<1
Methyl-tert-butylether	ug/L	EPA8260	06-23-99	<1
2-butanone	ug/L	EPA8260	06-23-99	<10
Methyl_iodide	ug/L	EPA8260	06-23-99	<1
4-methyl-2-pentanone	ug/L	EPA8260	06-23-99	<10
Naphthalene	ug/L	EPA8260	06-23-99	<1
Propylbenzene	ug/L	EPA8260	06-23-99	<1
Styrene	ug/L	EPA8260	06-23-99	<1
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-23-99	<1
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-23-99	<1
Tetrachloroethene	ug/L	EPA8260	06-23-99	<1
Toluene	ug/L	EPA8260	06-23-99	<0.5
1,2,3-trichlorobenzene	ug/L	EPA8260	06-23-99	<1
1,2,4-trichlorobenzene	ug/L	EPA8260	06-23-99	<1
1,1,1-trichloroethane	ug/L	EPA8260	06-23-99	<1
1,1,2-trichloroethane	ug/L	EPA8260	06-23-99	<1
Trichloroethene	ug/L	EPA8260	06-23-99	<1
Trichlorofluoromethane	ug/L	EPA8260	06-23-99	<2
1,2,3-trichloropropane	ug/L	EPA8260	06-23-99	<1
1,2,4-trimethylbenzene	ug/L	EPA8260	06-23-99	<1
1,3,5-trimethylbenzene	ug/L	EPA8260	06-23-99	<1
Vinyl acetate	ug/L	EPA8260	06-23-99	<1
Vinyl chloride	ug/L	EPA8260	06-23-99	<0.5
Xylene	ug/L	EPA8260	06-23-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.100	0.102	102%	0.081 - 0.120
Arsenic	mg/L	EPA6020	06-23-99	0.100	0.102	102%	0.086 - 0.114
Barium	mg/L	EPA6020	06-23-99	0.100	0.100	100%	0.086 - 0.115
Beryllium	mg/L	EPA6020	06-23-99	0.100	0.102	102%	0.067 - 0.132
Cadmium	mg/L	EPA6020	06-23-99	0.100	0.098	97.8%	0.088 - 0.113
Cobalt	mg/L	EPA6020	06-23-99	0.100	0.107	107%	0.086 - 0.116
Chromium	mg/L	EPA6020	06-23-99	0.100	0.107	107%	0.084 - 0.115
Copper	mg/L	EPA6020	06-23-99	0.100	0.104	104%	0.081 - 0.118
Nickel	mg/L	EPA6020	06-23-99	0.100	0.105	105%	0.083 - 0.115
Lead	mg/L	EPA6020	06-23-99	0.100	0.101	101%	0.085 - 0.119
Antimony	mg/L	EPA6020	06-23-99	0.100	0.097	96.8%	0.086 - 0.111
Selenium	mg/L	EPA6020	06-23-99	0.100	0.105	105%	0.084 - 0.116
Thallium	mg/L	EPA6020	06-23-99	0.100	0.101	101%	0.085 - 0.119
Vanadium	mg/L	EPA6020	06-23-99	0.100	0.110	110%	0.085 - 0.116
Zinc	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.080 - 0.119
Acetone	ug/L	EPA8260	06-23-99	100	90.7	90.7%	39.5 - 163
Benzene	ug/L	EPA8260	06-23-99	10.0	11.0	110%	6.75 - 13.2
Bromobenzene	ug/L	EPA8260	06-23-99	10.0	9.79	97.9%	7.47 - 12.1
Bromochloromethane	ug/L	EPA8260	06-23-99	10.0	9.96	99.6%	7.65 - 11.7
Bromodichloromethane	ug/L	EPA8260	06-23-99	10.0	9.71	97.1%	8.25 - 11.6
Bromoform	ug/L	EPA8260	06-23-99	10.0	8.31	83.1%	6.66 - 12.7
Bromomethane	ug/L	EPA8260	06-23-99	10.0	11.3	113%	5.99 - 14.2
n-butylbenzene	ug/L	EPA8260	06-23-99	10.0	10.4	104%	7.08 - 12.0
sec-butylbenzene	ug/L	EPA8260	06-23-99	10.0	10.1	101%	7.45 - 12.2
tert-butylbenzene	ug/L	EPA8260	06-23-99	10.0	10.1	101%	6.94 - 13.0
Carbon disulfide	ug/L	EPA8260	06-23-99	10.0	10.5	105%	5.01 - 16.0
Carbon tetrachloride	ug/L	EPA8260	06-23-99	10.0	9.88	98.8%	6.45 - 13.4
Chlorobenzene	ug/L	EPA8260	06-23-99	10.0	10.5	105%	8.58 - 11.6
Chloroethane	ug/L	EPA8260	06-23-99	10.0	11.7	117%	5.39 - 14.5
Chloroform	ug/L	EPA8260	06-23-99	10.0	12.2	122%	7.49 - 13.1
Chloromethane	ug/L	EPA8260	06-23-99	10.0	11.0	110%	3.89 - 14.0
2-chlorotoluene	ug/L	EPA8260	06-23-99	10.0	10.9	109%	7.02 - 12.6
4-chlorotoluene	ug/L	EPA8260	06-23-99	10.0	9.94	99.4%	7.15 - 12.4
Dibromochloromethane	ug/L	EPA8260	06-23-99	10.0	9.20	92.0%	7.87 - 11.7
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-23-99	10.0	8.90	89.0%	5.94 - 12.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-23-99	10.0	9.04	90.4%	8.20 - 11.4
Dibromomethane	ug/L	EPA8260	06-23-99	10.0	9.54	95.4%	8.34 - 11.9
o-dichlorobenzene	ug/L	EPA8260	06-23-99	10.0	9.62	96.2%	7.86 - 12.1
m-dichlorobenzene	ug/L	EPA8260	06-23-99	10.0	10.1	101%	7.98 - 11.9
Para-dichlorobenzene	ug/L	EPA8260	06-23-99	10.0	9.72	97.2%	7.83 - 12.1
Dichlorodifluoromethane	ug/L	EPA8260	06-23-99	10.0	9.33	93.3%	4.22 - 13.5
1,1-dichloroethane	ug/L	EPA8260	06-23-99	10.0	9.93	99.3%	7.10 - 13.1
1,2-dichloroethane	ug/L	EPA8260	06-23-99	10.0	9.32	93.2%	7.76 - 12.4
1,1-dichloroethene	ug/L	EPA8260	06-23-99	10.0	10.4	104%	6.33 - 13.0
cis-1,2-dichloroethene	ug/L	EPA8260	06-23-99	10.0	10.9	109%	7.83 - 11.9
t-1,2-dichloroethene	ug/L	EPA8260	06-23-99	10.0	8.41	84.1%	6.61 - 12.9
1,2-dichloroethene	ug/L	EPA8260	06-23-99	20.0	19.3	96.5%	14.3 - 25.3
1,2-dichloropropane	ug/L	EPA8260	06-23-99	10.0	10.3	103%	7.56 - 12.2
1,3-dichloropropane	ug/L	EPA8260	06-23-99	10.0	9.76	97.6%	8.38 - 11.5
2,2-dichloropropane	ug/L	EPA8260	06-23-99	10.0	9.96	99.6%	2.87 - 13.4
1,1-dichloropropene	ug/L	EPA8260	06-23-99	10.0	9.44	94.4%	7.31 - 11.7
cis-1,3-dichloropropene	ug/L	EPA8260	06-23-99	10.0	9.18	91.8%	7.18 - 11.8
trans-1,3-dichloropropene	ug/L	EPA8260	06-23-99	10.0	9.18	91.8%	6.99 - 12.1
Ethylbenzene	ug/L	EPA8260	06-23-99	10.0	10.8	108%	7.48 - 12.5
Hexachlorobutadiene	ug/L	EPA8260	06-23-99	10.0	10.2	102%	7.25 - 12.5
2-Hexanone	ug/L	EPA8260	06-23-99	10.0	9.80	98.0%	6.00 - 13.7
Isopropylbenzene	ug/L	EPA8260	06-23-99	10.0	9.99	99.9%	6.75 - 13.7
4-isopropyltoluene	ug/L	EPA8260	06-23-99	10.0	10.4	104%	7.62 - 11.9
Methylene chloride	ug/L	EPA8260	06-23-99	10.0	10.3	103%	6.48 - 13.9
Methyl-tert-butylether	ug/L	EPA8260	06-23-99	10.0	9.19	91.9%	4.59 - 14.7
2-butanone	ug/L	EPA8260	06-23-99	10.0	10.4	104%	4.38 - 16.0
Methyl iodide	ug/L	EPA8260	06-23-99	10.0	10.0	100%	5.94 - 16.3
4-methyl-2-pentanone	ug/L	EPA8260	06-23-99	10.0	10.7	107%	4.26 - 13.1
Naphthalene	ug/L	EPA8260	06-23-99	10.0	9.54	95.4%	3.63 - 14.7
Propylbenzene	ug/L	EPA8260	06-23-99	10.0	10.8	108%	7.16 - 12.3
Styrene	ug/L	EPA8260	06-23-99	10.0	9.39	93.9%	7.76 - 13.0
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-23-99	10.0	10.3	103%	7.87 - 11.8
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-23-99	10.0	8.73	87.3%	6.21 - 12.8
Tetrachloroethene	ug/L	EPA8260	06-23-99	20.0	22.6	113%	11.3 - 27.9
Toluene	ug/L	EPA8260	06-23-99	10.0	10.7	107%	7.07 - 13.1



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-23-99	10.0	9.58	95.8%	5.43 - 13.4
1,2,4-trichlorobenzene	ug/L	EPA8260	06-23-99	10.0	9.71	97.1%	5.52 - 12.8
1,1,1-trichloroethane	ug/L	EPA8260	06-23-99	10.0	10.2	102%	7.65 - 12.4
1,1,2-trichloroethane	ug/L	EPA8260	06-23-99	10.0	9.37	93.7%	8.46 - 11.5
Trichloroethene	ug/L	EPA8260	06-23-99	10.0	11.0	110%	6.36 - 14.6
Trichlorofluoromethane	ug/L	EPA8260	06-23-99	10.0	8.78	87.8%	1.48 - 15.6
1,2,3-trichloropropane	ug/L	EPA8260	06-23-99	10.0	9.52	95.2%	6.45 - 13.5
1,2,4-trimethylbenzene	ug/L	EPA8260	06-23-99	10.0	10.5	105%	7.52 - 12.2
1,3,5-trimethylbenzene	ug/L	EPA8260	06-23-99	10.0	10.4	104%	7.29 - 12.3
Vinyl acetate	ug/L	EPA8260	06-23-99	10.0	12.2	122%	2.89 - 16.5
Vinyl chloride	ug/L	EPA8260	06-23-99	10.0	11.2	112%	5.44 - 14.0
Xylene	ug/L	EPA8260	06-23-99	30.0	31.7	106%	21.7 - 38.3



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Silver	Fisher	14-140AS	827	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99	2.66	±2.00	0.935	0.078	1.14	0.358
Matrix Spike	Fisher	14-140AS	827	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99						
Arsenic	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99	4.77	>1.67	0.973	0.063	1.03	0.050
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99	4.18	±1.98	0.978	0.089	1.21	0.375
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99	4.77	>1.67	0.973	0.063	1.03	0.050
Barium	Fisher	14-137AS	827	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	827	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Beryllium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LMS	04-19-99	12-31-99	1195	LMS	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Cadmium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Cobalt	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99	8.01	>1.69	1.01	0.039	0.962	0.029
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Chromium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Copper	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Nickel	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99						
Lead	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Antimony	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS																



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Control Mean	Control Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-05-98	11-05-99						
Selenium	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-05-98	11-05-99						
Thallium	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-03-98	08-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-03-98	08-31-99						
Vanadium	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-03-98	05-03-99			1.01	0.149	0.995	0.020
QCCS	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-03-98	05-03-99			1.01	0.149	0.995	0.020
Matrix Spike	Fisher	14-137AS	826	EV	11-03-98	08-31-99	994	EV	11-03-98	05-03-99			1.01	0.149	0.995	0.020
Zinc	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Acetone	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Benzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Bromobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Bromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Bromodichloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Bromoform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Bromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Control Mean	Control Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045
n-butylbenzene	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
Matrix Spike	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
sec-butylbenzene	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
tert-butylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Carbon disulfide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Carbon tetrachloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Chlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Chloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Chloroform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Chloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
2-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
4-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033
Dibromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
1,2-dibromo-3-chloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
1,2-dibromoethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Dibromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
o-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
m-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Dichlorodifluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
1,1-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.85	>1.65	0.954	0.086	1.10	0.109
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
1,2-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
1,1-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.77	>1.65	0.942	0.093	1.08	0.062
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
cis-1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069
t-1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
1,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
1,3-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
2,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	-5.47	±2.01	1.04	0.168	0.752	0.174
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
1,1-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
cis-1,3-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
trans-1,3-dichloropropene	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Ethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Hexachlorobutadiene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	8.93	±2.03	0.736	0.125	1.04	0.045
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
2-Hexanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087
Isopropylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
4-isopropyltoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Methylene chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.36	±2.06	1.00	0.061	1.18	0.094
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Methyl-tert-butylether	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
2-butanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Methyl iodide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99	5.87	±2.00	1.00	0.051	1.17	0.157
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
4-methyl-2-pentanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Naphthalene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Propylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Styrene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
1,1,1,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.28	>1.76	0.962	0.049	1.02	0.036
QCCS																



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike																
1,1,2,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Tetrachloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	2.73	±2.07	0.949	0.045	1.10	0.175
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Toluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
1,2,3-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	12.2	±2.01	1.02	0.064	0.723	0.107
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
1,2,4-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
1,1,1-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
1,1,2-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Trichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Trichlorofluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
1,2,3-trichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
1,2,4-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain Wat
P.O. Number: 110456
Date Sampled: 17-Jun-99
Lab Numbers: 8161 - 8161

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002
1,3,5-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Vinyl acetate	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Vinyl chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
M&P-Xylene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
EPA6020 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
EPA8260 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
Surrogate Spike1	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.01	0.083		
Surrogate Spike2	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.00	0.034		
Surrogate Spike3	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			0.989	0.043		



PASCO COUNTY, FLORIDA

ENVIRONMENTAL LABORATORY
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654
(727) 847-8902

DHRS # 44237, E44123
CompQAP # 870167G

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

AUG 11 1999

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: RES REC ASHCELL
DATE: 07/19/99

SAMPLE NUMBER- 80609 SAMPLE ID- ASH CELL RAINWATER RUNOFF
DATE SAMPLED- 06/18/99 LOCATION- RAINWATER RUNOFF
DATE RECEIVED- 06/18/99 SAMPLER- RAYMOND BOERSTLER
TIME RECEIVED- 1025 DELIVERED BY- RAY BOERSTLER

SAMPLE MATRIX- OT
TIME SAMPLED- 0900
RECEIVED BY- MAS
TYPE SAMPLE- Grab

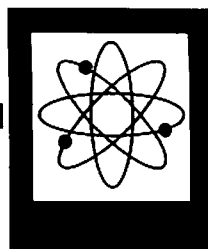
Page 1 of 2

ANALYSIS	METHOD	SAMPLE PREP DATE	BY	ANALYSIS DATE	TIME	BY	RESULT	UNITS	DQ
TOT.ORGANIC CARBON	SM 5310			06/24/99	1230	IF	0.98	mg/L	
BIOCHEM.OXY.DEMAND	SM5210B			06/18/99	1430	DN	<1	mg/L	
CHEMICAL OXYGEN DEMAND	SM5220B			06/22/99	1530	TER	4.0	mg/L	
CHLOROPHYLL A	SM 10200H	06/21/99	TER	06/22/99	1000	JKH	3.11	mg/M3	
HARDNESS AS CaCO3 BY CALC	SM2340B			06/21/99	1600	TER	6.4	mg/L CaCo3	
AMMONIA NITROGEN	SM4500NH3H			06/18/99	1530	IF	<0.03	mg/L	
UN-IONIZED AMMONIA N	DEP SOP			07/15/99	1100	CEM	<0.02	mg/L	
KJELDAHL NITROGEN	4500NorgB			06/24/99	1200	TER	0.20	mg/L	
NITRATE	SM4500NO3F			06/22/99	1500	IF	<0.11	mg/L	
TOTAL NITROGEN	CALC.			07/15/99	1100	CEM	0.20	MG/L	
PH,LAB	SM4500H+ B			06/21/99	1600	JKH	7.40	std units	
TEMPERATURE, LAB	SM2550B			06/19/99	1500	JK	19.9	degrees C	
TOTAL PHOSPHOROUS	SM4500P B			06/24/99	1300	DN	0.04	mgP/L	
TOTAL DISS.SOLIDS	SM2540C			06/21/99	1500	JKH	13	mg/L	
TOTAL SUSP. SOLIDS	SM2540D			06/18/99	1630	DN	2	mg/L	
SPEC.CONDUCTIVITY	SM2510B			06/21/99	1600	JKH	10	umhos/cm	
TURBIDITY	SM 2130 B			06/21/99	1600	JKH	1.20	NTU	
COPPER, TOTAL	SM3113B	06/21/99	TER	06/21/99	1005	TER	<0.02	mg/L	
IRON, TOTAL	SM 3111B	06/21/99	TER	06/21/99	0950	TER	0.03	mg/L	
MERCURY, TOTAL	SM3112B			06/22/99	1110	TER	0.0004	mg/L	
ZINC, TOTAL	SM3111B	06/21/99	TER	06/21/99	1015	TER	0.01	mg/L	

LABORATORY DIRECTOR

FLOWERS

**CHEMICAL
LABORATORIES**
INCORPORATED



Received From:
Pasco Co. Utilities Env. Lab
8864 Government Dr.
New Port Richey, FL 34654

Date Reported : Jun28 1999
Project Number : Res Rec Rain H2O
PO Number : 110456
FDHRSW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

Ash CELL Rainwater
Runoff

For: Appendix I

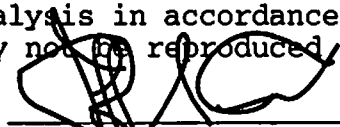
Date Sampled: Jun21 1999 Date Received: Jun22 1999 Lab Numbers: 8285-8286

REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8285	8286
					ACRRO6	ACRRO6
					18	21
Detection Limit						
Silver	mg/L	.00005	108.	.200	<5e-05	<5e-05
Arsenic	mg/L	.00005	100.	1.55	.00014	.00767
Barium	mg/L	.00040	115.	1.70	.00119	0.136
Beryllium	mg/L	.00010	113.	.000	<.0001	<.0001
Cadmium	mg/L	.00005	100.	.870	<5e-05	.00534
Cobalt	mg/L	.00010	109.	3.18	.00030	.00129
Chromium	mg/L	.00020	111.	3.13	<.0002	.00178
Copper	mg/L	.00020	105.	8.01	0.0160	0.0357
Nickel	mg/L	.00020	104.	4.10	.00032	0.0136
Lead	mg/L	.00010	96.7	1.37	.00121	0.0122
Antimony	mg/L	.00020	100.	2.14	.00236	0.0205
Selenium	mg/L	.00030	102.	.000	<.0003	0.0177
Thallium	mg/L	.00010	98.2	.890	<.0001	0.0100
Vanadium	mg/L	.00006	113.	.300	.00206	.00589
Zinc	mg/L	.00070	107.	7.60	0.0166	0.0944
Dilution_Factor		-	-	-	1.00	1.00
Acetone	ug/L	10.0	79.7	12.8	<10.0	<10.0
Acrylonitrile	ug/L	1.00			<1.00	<1.00
Benzene	ug/L	0.500	92.7	3.70	<0.500	<0.500
Bromobenzene	ug/L	1.00	89.0	3.85	<1.00	<1.00
Bromochloromethane	ug/L	1.00	91.0	3.89	<1.00	<1.00
Bromodichloromethane	ug/L	1.00	86.8	4.93	<1.00	<1.00
Bromoform	ug/L	1.00	80.1	6.27	<1.00	<1.00
Bromomethane	ug/L	5.00	96.4	4.11	<5.00	<5.00
n-butylbenzene	ug/L	1.00	92.3	3.49	<1.00	<1.00
sec-butylbenzene	ug/L	1.00	91.6	4.13	<1.00	<1.00

Data Release Authorization

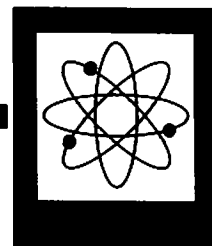
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**CHEMICAL
LABORATORIES**
INCORPORATED



Received From:
Pasco Co. Utilities Env. Lab
8864 Government Dr.
New Port Richey, FL 34654

Date Reported : Jun28 1999
Project Number : Res Rec Rain H2O
PO Number : 110456
FDHRSW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

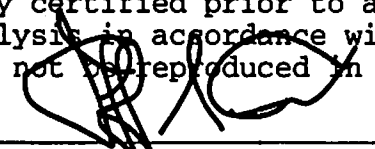
For: Appendix I

Date Sampled: Jun21 1999 Date Received: Jun22 1999 Lab Numbers: 8285-8286
REPORT OF ANALYSIS

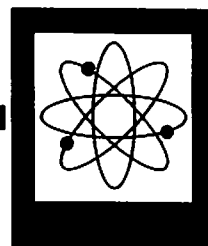
Parameter	Unit	Method Detection Limit	%ACC	%PRC	8285	8286
					ACRRO6	ACRRO6
					18	21
tert-butlybenzene	ug/L	1.00	101.	5.09	<1.00	<1.00
Carbon disulfide	ug/L	5.00	87.1	9.90	<5.00	<5.00
Carbon tetrachloride	ug/L	1.00	89.9	5.70	<1.00	<1.00
Chlorobenzene	ug/L	0.500	93.2	4.78	<0.500	<0.500
Chloroethane	ug/L	1.00	96.1	2.28	<1.00	<1.00
Chloroform	ug/L	1.00	92.4	4.21	<1.00	<1.00
Chloromethane	ug/L	5.00	88.5	4.20	<5.00	<5.00
2-chlorotoluene	ug/L	0.500	95.0	.700	<0.500	<0.500
4-chlorotoluene	ug/L	0.500	86.5	7.60	<0.500	<0.500
Dibromochloromethane	ug/L	1.00	90.0	5.54	<1.00	<1.00
1,2-dibromo-3-chloro	ug/L	1.00	86.3	5.65	<1.00	<1.00
1,2-dibromoethane	ug/L	1.00	92.3	3.99	<1.00	<1.00
Dibromomethane	ug/L	1.00	90.2	5.10	<1.00	<1.00
o-dichlorobenzene	ug/L	0.500	89.4	3.20	<0.500	<0.500
m-dichlorobenzene	ug/L	0.500	89.3	4.63	<0.500	<0.500
Para-dichlorobenzene	ug/L	0.500	89.1	4.88	<0.500	<0.500
Dichlorodifluorometh	ug/L	2.00	77.3	10.1	<2.00	<2.00
t-1,4-dichloro-2-but	ug/L	10.0			<10.0	<10.0
1,1-dichloroethane	ug/L	1.00	81.2	1.22	<1.00	<1.00
1,2-dichloroethane	ug/L	1.00	91.7	4.67	<1.00	<1.00
1,1-dichloroethene	ug/L	1.00	89.9	6.41	<1.00	<1.00
cis-1,2-dichloroethe	ug/L	1.00	86.6	7.72	<1.00	<1.00
t-1,2-dichloroethene	ug/L	2.00	85.9	8.48	<2.00	<2.00
1,2-dichloroethene	ug/L	1.00	86.2	8.10	<1.00	<1.00
1,2-dichloropropane	ug/L	1.00	92.6	4.77	<1.00	<1.00
1,3-dichloropropane	ug/L	1.00	92.4	5.62	<1.00	<1.00

Data Release Authorization

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New Port Richey, FL 34654

Date Reported : Jun28 1999
Project Number : Res Rec Rain H2O
PO Number : 110456
FDHRSW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

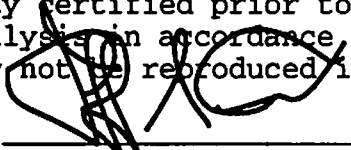
For: Appendix I

Date Sampled: Jun21 1999 Date Received: Jun22 1999 Lab Numbers: 8285-8286
REPORT OF ANALYSIS

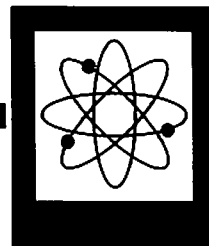
Parameter	Unit	Method	%ACC	%PRC	8285	8286
					ACRRO6 18	ACRRO6 21
		Detection Limit				
2,2-dichloropropane	ug/L	3.00	86.0	7.69	<3.00	<3.00
1,1-dichloropropene	ug/L	0.500	84.4	3.06	<0.500	<0.500
cis-1,3-dichloroprop	ug/L	1.00	91.2	4.77	<1.00	<1.00
trans-1,3,-dichlorop	ug/L	1.00	88.8	5.50	<1.00	<1.00
Ethylbenzene	ug/L	0.500	93.7	3.96	<0.500	<0.500
Hexachlorobutadiene	ug/L	1.00	93.7	3.13	<1.00	<1.00
2-Hexanone	ug/L	10.0	82.8	6.27	<10.0	<10.0
Hexachloroethane	ug/L	1.00			<1.00	<1.00
Isopropylbenzene	ug/L	1.00	89.1	5.16	<1.00	<1.00
4-isopropyltoluene	ug/L	1.00	92.0	4.54	<1.00	<1.00
Methylene chloride	ug/L	1.00	89.2	11.6	<1.00	4.83
Methyl-tert-butyleth	ug/L	1.00	84.1	8.67	<1.00	<1.00
2-butanone	ug/L	10.0			<10.0	<10.0
Methyl iodide	ug/L	1.00	82.9	11.4	<1.00	<1.00
4-methyl-2-pentanone	ug/L	10.0	75.9	13.2	<10.0	<10.0
Naphthalene	ug/L	1.00	93.8	6.41	<1.00	<1.00
propylbenzene	ug/L	1.00	92.8	4.15	<1.00	<1.00
Styrene	ug/L	1.00	84.4	6.16	<1.00	<1.00
1,1,1,2-tetrachloroe	ug/L	1.00	95.9	4.39	<1.00	<1.00
1,1,2,2-tetrachloroe	ug/L	1.00	89.2	4.40	<1.00	<1.00
Tetrachloroethene	ug/L	1.00	76.4	6.16	<1.00	<1.00
Toluene	ug/L	0.500	91.8	4.12	<0.500	<0.500
1,2,3-trichlorobenze	ug/L	1.00	88.6	4.15	<1.00	<1.00
1,2,4-trichlorobenze	ug/L	1.00	92.1	4.99	<1.00	<1.00
1,1,1-trichloroethan	ug/L	1.00	93.1	4.33	<1.00	<1.00
1,1,2-trichloroethan	ug/L	1.00	91.4	4.03	<1.00	<1.00

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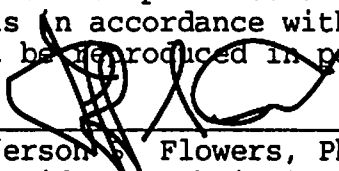
For: Appendix I

Date Sampled: Jun21 1999 Date Received: Jun22 1999 Lab Numbers: 8285-8286
REPORT OF ANALYSIS

Parameter	Unit	Method	%ACC	%PRC	8285	8286
					ACRRO6	ACRRO6
					18	21
		Detection				
		Limit				
Trichloroethene	ug/L	1.00	107.	3.60	<1.00	<1.00
Trichlorofluorometha	ug/L	2.00	88.9	6.60	<2.00	<2.00
1,2,3-trichloropropa	ug/L	1.00	91.1	5.08	<1.00	<1.00
1,2,4-trimethylbenze	ug/L	1.00	90.6	3.90	<1.00	<1.00
1,3,5-trimethylbenze	ug/L	1.00	90.6	4.18	<1.00	<1.00
Vinyl acetate	ug/L	1.00	91.9	11.6	<1.00	<1.00
Vinyl chloride	ug/L	0.500	91.6	6.33	<0.500	<0.500
Xylene	ug/L	0.500	94.2	3.61	<0.500	<0.500
Surrogate_Spike1	ug/L	1.00	96.2	.760	28.4	27.9
Surrogate_Spike2	ug/L	1.00	100.	.280	28.0	28.3
Surrogate_Spike3	ug/L	1.00	99.4	.680	23.8	23.4
-	-	-	-	-	-	-

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3600	FLOWERS CHEMICAL LABORATORIES																	
	ANALYTICAL RESULTS FORM												HRS Number 83139					
			ACRRD(6-18)	ACRRD(6-21)									QA		Section			
Parameter	Symbol	Unit	8285	8286									Method	MDL	%RSD	%Rec	Analysis	Date
Silver	*	mg/L	<0.00005U	<0.00005U									EPA6020	0.00005	0.2046140	108.25	LSM	06-23-99
Arsenic	*	mg/L	0.000141	0.00767									EPA6020	0.00005	1.5545018	100.35	LSM	06-23-99
Barium	*	mg/L	0.00119	0.136									EPA6020	0.0004	1.7036581	115.4	LSM	06-23-99
Beryllium	*	mg/L	<0.0001U	<0.0001U									EPA6020	0.0001	0	113.25	LSM	06-23-99
Cadmium	*	mg/L	<0.00005U	0.00534									EPA6020	0.00005	0.8761836	100.386	LSM	06-23-99
Cobalt	*	mg/L	0.000296	0.00129									EPA6020	0.0001	3.1818633	109.1295	LSM	06-23-99
Chromium	*	mg/L	<0.0002U	0.00178									EPA6020	0.0002	3.1325867	111	LSM	06-23-99
Copper	*	mg/L	0.0160	0.0357									EPA6020	0.0002	8.0183836	105.1	LSM	06-23-99
Nickel	*	mg/L	0.000319	0.0136									EPA6020	0.0002	4.1065232	104.765	LSM	06-23-99
Lead	*	mg/L	0.00121	0.0122									EPA6020	0.0001	1.3720244	96.765	LSM	06-23-99
Antimony	*	mg/L	0.00236	0.0205									EPA6020	0.0002	2.1479508	100.875	LSM	06-23-99
Selenium	*	mg/L	<0.0003U	0.0177									EPA6020	0.0003	0	102.25	LSM	06-23-99
Thallium	*	mg/L	<0.0001U	0.0100									EPA6020	0.0001	0.8961577	98.25	LSM	06-23-99
Vanadium	*	mg/L	0.00206	0.00589									EPA6020	0.00006	0.3059484	113.5925	LSM	06-23-99
Zinc	*	mg/L	0.0166	0.0944									EPA6020	0.0007	7.6045060	107	LSM	06-23-99
Dilution Factor	*	#	1	1									EPA5030	1			CLS	06-25-99
Acetone	*	ug/L	<10U	<10U									EPA8260	10	12.8	78.7	CLS	06-25-99
Acrylonitrile	*	ug/L	<1U	<1U									EPA8260	1			CLS	06-25-99
Benzene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	3.7	92.7	CLS	06-25-99
Bromobenzene	*	ug/L	<1U	<1U									EPA8260	1	3.85	89	CLS	06-25-99
Bromochloromethane	*	ug/L	<1U	<1U									EPA8260	1	3.89	91	CLS	06-25-99
Bromodichloromethane	*	ug/L	<1U	<1U									EPA8260	1	4.93	86.8	CLS	06-25-99
Bromoform	*	ug/L	<1U	<1U									EPA8260	1	6.27	80.1	CLS	06-25-99
Bromomethane	*	ug/L	<5U	<5U									EPA8260	5	4.11	96.4	CLS	06-25-99
n-butylbenzene	*	ug/L	<1U	<1U									EPA8260	1	3.49	92.3	CLS	06-25-99
sec-butylbenzene	*	ug/L	<1U	<1U									EPA8260	1	4.13	91.6	CLS	06-25-99
tert-butylbenzene	*	ug/L	<1U	<1U									EPA8260	1	5.09	101	CLS	06-25-99
Carbon disulfide	*	ug/L	<5U	<5U									EPA8260	5	9.9	87.1	CLS	06-25-99
Carbon tetrachloride	*	ug/L	<1U	<1U									EPA8260	1	5.7	89.9	CLS	06-25-99
Chlorobenzene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	4.78	93.2	CLS	06-25-99
Chloroethane	*	ug/L	<1U	<1U									EPA8260	1	2.28	96.1	CLS	06-25-99
Chloroform	*	ug/L	<1U	<1U									EPA8260	1	4.21	92.4	CLS	06-25-99
Chloromethane	*	ug/L	<5U	<5U									EPA8260	5	4.2	88.5	CLS	06-25-99
2-chlorotoluene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	0.707	95	CLS	06-25-99
4-chlorotoluene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	7.6	86.5	CLS	06-25-99
Dibromochloromethane	*	ug/L	<1U	<1U									EPA8260	1	5.54	90	CLS	06-25-99
1,2-dibromo-3-chloroprop	*	ug/L	<1U	<1U									EPA8260	1	5.65	86.3	CLS	06-25-99
1,2-dibromoethane	*	ug/L	<1U	<1U									EPA8260	1	3.99	92.3	CLS	06-25-99
Dibromomethane	*	ug/L	<1U	<1U									EPA8260	1	5.1	90.2	CLS	06-25-99
o-dichlorobenzene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	3.2	89.4	CLS	06-25-99
m-dichlorobenzene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	4.63	89.3	CLS	06-25-99
Para-dichlorobenzene	*	ug/L	<0.5U	<0.5U									EPA8260	0.5	4.88	89.1	CLS	06-25-99
Dichlorodifluoromethane	*	ug/L	<2U	<2U									EPA8260	2	10.1	77.3	CLS	06-25-99
t-1,4-dichloro-2-butene	*	ug/L	<10U	<10U									EPA8260	10			CLS	06-25-99
1,1-dichloroethane	*	ug/L	<1U	<1U									EPA8260	1	1.22	81.2	CLS	06-25-99
1,2-dichloroethane	*	ug/L	<1U	<1U									EPA8260	1	4.67	91.7	CLS	06-25-99
1,1-dichloroethene	*	ug/L	<1U	<1U									EPA8260	1	6.41	89.9	CLS	06-25-99
cis-1,2-dichloroethene	*	ug/L	<1U	<1U									EPA8260	1	7.72	86.6	CLS	06-25-99
t-1,2-dichloroethene	*	ug/L	<2U	<2U									EPA8260	2	8.48	85.9	CLS	06-25-99
1,2-dichloroethene	*	ug/L	<1U	<1U									EPA8260	1	8.1	86.2	CLS	06-25-99

1,2-dichloropropane	*	ug/L	<1U	<1U								EPA8260	1	4.77	82.6	CLS	06-25-99
1,3-dichloropropane	*	ug/L	<1U	<1U								EPA8260	1	5.62	82.4	CLS	06-25-99
2,2-dichloropropane	*	ug/L	<3U	<3U								EPA8260	3	7.69	88	CLS	06-25-99
1,1-dichloropropene	*	ug/L	<0.5U	<0.5U								EPA8260	0.5	3.06	84.4	CLS	06-25-99
cis-1,3-dichloropropene	*	ug/L	<1U	<1U								EPA8260	1	4.77	91.2	CLS	06-25-99
trans-1,3-dichloropropene	*	ug/L	<1U	<1U								EPA8260	1	5.5	88.8	CLS	06-25-99
Ethylbenzene	*	ug/L	<0.5U	<0.5U								EPA8260	0.5	3.96	93.7	CLS	06-25-99
Hexachlorobutadiene	*	ug/L	<1U	<1U								EPA8260	1	3.13	93.7	CLS	06-25-99
2-Hexanone	*	ug/L	<10U	<10U								EPA8260	10	6.27	82.8	CLS	06-25-99
Hexachloroethane	*	ug/L	<1U	<1U								EPA8260	1			CLS	06-25-99
Isopropylbenzene	*	ug/L	<1U	<1U								EPA8260	1	5.16	89.1	CLS	06-25-99
4-Isopropyltoluene	*	ug/L	<1U	<1U								EPA8260	1	4.54	92	CLS	06-25-99
Methylene chloride	*	ug/L	<1U	4.83								EPA8260	1	11.6	89.2	CLS	06-25-99
Methyl-tert-butylether	*	ug/L	<1U	<1U								EPA8260	1	8.67	84.1	CLS	06-25-99
2-butanone	*	ug/L	<10U	<10U								EPA8260	10			CLS	06-25-99
Methyl iodide	*	ug/L	<1U	<1U								EPA8260	1	11.4	82.9	CLS	06-25-99
4-methyl-2-pentanone	*	ug/L	<10U	<10U								EPA8260	10	13.2	75.9	CLS	06-25-99
Naphthalene	*	ug/L	<1U	<1U								EPA8260	1	6.41	93.8	CLS	06-25-99
Propylbenzene	*	ug/L	<1U	<1U								EPA8260	1	4.15	92.8	CLS	06-25-99
Styrene	*	ug/L	<1U	<1U								EPA8260	1	6.16	84.4	CLS	06-25-99
1,1,1,2-tetrachloroethane	*	ug/L	<1U	<1U								EPA8260	1	4.39	95.9	CLS	06-25-99
1,1,2,2-tetrachloroethane	*	ug/L	<1U	<1U								EPA8260	1	4.4	89.2	CLS	06-25-99
Tetrachloroethene	*	ug/L	<1U	<1U								EPA8260	1	6.16	76.4	CLS	06-25-99
Toluene	*	ug/L	<0.5U	<0.5U								EPA8260	0.5	4.12	91.8	CLS	06-25-99
1,2,3-trichlorobenzene	*	ug/L	<1U	<1U								EPA8260	1	4.15	88.6	CLS	06-25-99
1,2,4-trichlorobenzene	*	ug/L	<1U	<1U								EPA8260	1	4.99	92.1	CLS	06-25-99
1,1,1-trichloroethane	*	ug/L	<1U	<1U								EPA8260	1	4.33	93.1	CLS	06-25-99
1,1,2-trichloroethane	*	ug/L	<1U	<1U								EPA8260	1	4.03	91.4	CLS	06-25-99
Trichloroethene	*	ug/L	<1U	<1U								EPA8260	1	3.6	107	CLS	06-25-99
Trichlorofluoromethane	*	ug/L	<2U	<2U								EPA8260	2	6.6	88.9	CLS	06-25-99
1,2,3-trichloropropane	*	ug/L	<1U	<1U								EPA8260	1	5.08	91.1	CLS	06-25-99
1,2,4-trimethylbenzene	*	ug/L	<1U	<1U								EPA8260	1	3.9	90.6	CLS	06-25-99
1,3,5-trimethylbenzene	*	ug/L	<1U	<1U								EPA8260	1	4.18	90.6	CLS	06-25-99
Vinyl acetate	*	ug/L	<1U	<1U								EPA8260	1	11.6	91.9	CLS	06-25-99
Vinyl chloride	*	ug/L	<0.5U	<0.5U								EPA8260	0.5	6.33	91.6	CLS	06-25-99
Xylene	*	ug/L	<0.5U	<0.5U								EPA8260	0.5	3.61	94.2	CLS	06-25-99
Surrogate Spike1	*	ug/L	28.36	27.9								EPA8260	1	0.76	96.2	CLS	06-25-99
Surrogate Spike2	*	ug/L	27.97	28.32								EPA8260	1	0.282	100	CLS	06-25-99
Surrogate Spike3	*	ug/L	23.75	23.35								EPA8260	1	0.688	99.4	CLS	06-25-99
-	*	-										-	-				

Date Received: 06-22-99

Typed:

06-28-99

Sent:

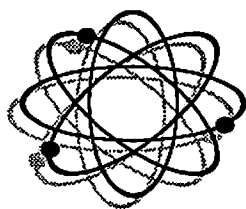
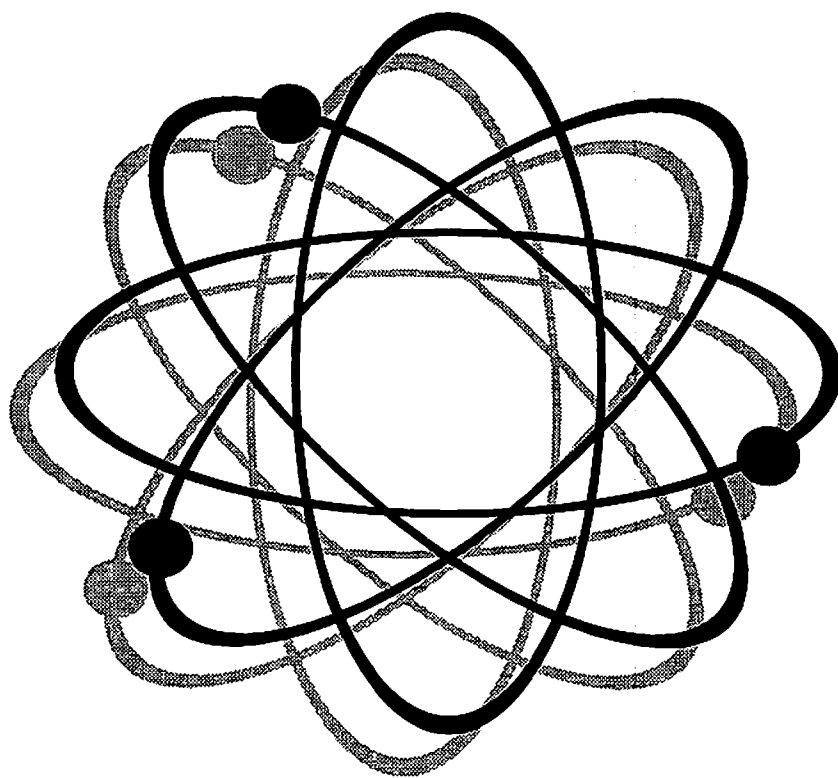
06-28-99

Project Number Res Rec Rain H2O
 PO Number 110456
 Date Sampled 1 06-21-99 *
 Date Analyzed 0
 Compacted 1
 Format NormRR
 Unit Cost Exted
 Appendix I 18500 2 *

Quality Assurance Report

Prepared for: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
Lab Numbers: 8285 - 8286

Report date: 28-Jun-99



**FLOWERS
CHEMICAL
LABORATORIES**



FLOWERS CHEMICAL LABORATORIES, INC.

QA Conformance Summary

Client:	Pasco Co. Utilities Env. Lab
Project Number:	Res Rec Rain H2O
P.O. Number:	110456
Date Sampled:	21-Jun-99
Lab Numbers:	8285 - 8286

Sample Handling

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter

Surrogate Compound Recoveries:

The recovery limits were met for all samples as shown in section 1. This represents complete success.

Accuracy / Precision:

The recovery limits were met for all compounds in the matrix spike as shown in section 2.

The recovery limits were met for all compounds in the matrix spike duplicate as shown in section 2.

The RSD was met for all compounds as shown in section 2.

Method Blanks:

No target compounds were found in the method blank in excess of the method limit as shown in section 3.

QCCS Check Sample:

The control limits were met for all compounds as shown in section 4.

Standards Traceability:

The t-test limits were exceeded for 6 calibration standards as shown in section 5.

This represents a 92.6% success rate.

The t-test limits were exceeded for 5 QCCS standards as shown in section 5. This represents a 93.8% success rate.

The t-test limits were exceeded for 7 matrix spike standards as shown in section 5.

This represents a 91.4% success rate.



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

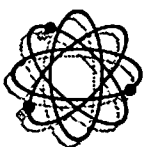
Surrogate_Spike1 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 21.8 - 34.1

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8285	ACRRO(6-18)	28.4	94.5
8286	ACRRO(6-21)	27.9	93.0



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

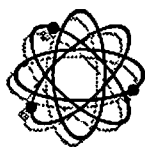
Surrogate_Spike2 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 22.8 - 35.6

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8285	ACRRO(6-18)	28.0	93.2
8286	ACRRO(6-21)	28.3	94.4



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 1

Surrogate Compound Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Surrogate_Spike3 for EPA8260

Surrogate Expected: 30

Unit of measure: ug/L

Acceptability Limits: 20.6 - 34

Laboratory Number	Site Description	Surrogate Recovered	Percent Recovered
8285	ACRRO(6-18)	23.8	79.2
8286	ACRRO(6-21)	23.4	77.8



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.222	0.0000	0.241	108%	0.240	108%	0.133 - 0.295	0.000	0 - 0.049
Arsenic	mg/L	EPA6020	06-23-99	0.222	0.000	0.223	100%	0.219	98.6%	0.169 - 0.283	0.003	0 - 0.035
Barium	mg/L	EPA6020	06-23-99	0.222	0.006	0.262	115%	0.257	113%	0.170 - 0.287	0.004	0 - 0.036
Beryllium	mg/L	EPA6020	06-23-99	0.222	<0.0001	0.252	113%	0.252	113%	0.148 - 0.316	0.000	0 - 0.045
Cadmium	mg/L	EPA6020	06-23-99	0.222	0.000	0.223	100%	0.226	101%	0.153 - 0.288	0.002	0 - 0.034
Cobalt	mg/L	EPA6020	06-23-99	0.222	0.000	0.243	109%	0.252	113%	0.150 - 0.292	0.006	0 - 0.041
Chromium	mg/L	EPA6020	06-23-99	0.222	<0.0002	0.247	111%	0.256	115%	0.159 - 0.282	0.006	0 - 0.031
Copper	mg/L	EPA6020	06-23-99	0.222	0.006	0.240	105%	0.263	115%	0.148 - 0.295	0.016	0 - 0.041
Nickel	mg/L	EPA6020	06-23-99	0.222	0.001	0.234	105%	0.245	110%	0.146 - 0.290	0.008	0 - 0.041
Lead	mg/L	EPA6020	06-23-99	0.222	0.002	0.217	96.8%	0.213	95.3%	0.155 - 0.296	0.002	0 - 0.035
Antimony	mg/L	EPA6020	06-23-99	0.222	0.008	0.232	101%	0.226	98.4%	0.169 - 0.301	0.004	0 - 0.038
Selenium	mg/L	EPA6020	06-23-99	0.222	<0.0003	0.227	102%	0.227	102%	0.157 - 0.284	0.000	0 - 0.037
Thallium	mg/L	EPA6020	06-23-99	0.222	<0.0001	0.218	98.3%	0.221	99.3%	0.161 - 0.292	0.002	0 - 0.041
Vanadium	mg/L	EPA6020	06-23-99	0.222	0.004	0.257	114%	0.258	114%	0.163 - 0.307	0.001	0 - 0.046
Zinc	mg/L	EPA6020	06-23-99	0.222	0.078	0.316	107%	0.344	120%	0.169 - 0.401	0.020	0 - 0.050
Acetone	ug/L	EPA8260	06-25-99	200	<10	145	72.5%	174	87.0%	78.2 - 321	20.5	0 - 66.3
Benzene	ug/L	EPA8260	06-25-99	20	<0.5	18.1	90.5%	19.0	95.0%	12.6 - 25.7	0.636	0 - 3.93
Bromobenzene	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.3	91.5%	15.1 - 23.6	0.707	0 - 2.45
Bromochloromethane	ug/L	EPA8260	06-25-99	20	<1	17.7	88.5%	18.7	93.5%	14.7 - 24.2	0.707	0 - 2.84
Bromodichloromethane	ug/L	EPA8260	06-25-99	20	<1	16.8	84.0%	18.0	90.0%	16.0 - 23.8	0.849	0 - 2.21
Bromoform	ug/L	EPA8260	06-25-99	20	<1	15.3	76.5%	16.7	83.5%	13.5 - 25.5	0.990	0 - 3.26
Bromomethane	ug/L	EPA8260	06-25-99	20	<5	18.7	93.5%	19.8	99.0%	13.8 - 26.1	0.778	0 - 4.44
n-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	18.9	94.5%	14.2 - 23.6	0.636	0 - 2.66
sec-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	18.9	94.5%	15.2 - 23.4	0.778	0 - 2.50
tert-butylbenzene	ug/L	EPA8260	06-25-99	20	<1	19.4	97.0%	20.9	105%	15.1 - 23.8	1.06	0 - 2.47
Carbon disulfide	ug/L	EPA8260	06-25-99	20	<5	16.2	81.0%	18.6	93.0%	8.90 - 30.9	1.70	0 - 6.29
Carbon tetrachloride	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.7	93.5%	11.9 - 27.9	0.990	0 - 4.36
Chlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	18.0	90.0%	19.3	96.5%	16.6 - 23.2	0.919	0 - 1.81
Chloroethane	ug/L	EPA8260	06-25-99	20	<1	18.9	94.5%	19.5	97.5%	12.4 - 26.3	0.424	0 - 5.14
Chloroform	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.0	95.0%	14.1 - 25.9	0.778	0 - 3.60
Chloromethane	ug/L	EPA8260	06-25-99	20	<5	17.2	86.0%	18.2	91.0%	10.9 - 25.9	0.707	0 - 4.27
2-chlorotoluene	ug/L	EPA8260	06-25-99	20	<0.5	18.9	94.5%	19.1	95.5%	14.9 - 23.9	0.141	0 - 2.52
4-chlorotoluene	ug/L	EPA8260	06-25-99	20	<0.5	16.4	82.0%	18.2	91.0%	14.9 - 23.4	1.27	0 - 2.21
Dibromochloromethane	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.7	93.5%	15.1 - 24.5	0.990	0 - 2.64
1,2-dibromo-3-chloropropan	ug/L	EPA8260	06-25-99	20	<1	16.6	83.0%	18.0	90.0%	12.0 - 26.4	0.990	0 - 4.45



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.0	95.0%	15.5 - 24.2	0.778	0 - 3.08
Dibromomethane	ug/L	EPA8260	06-25-99	20	<1	17.4	87.0%	18.7	93.5%	16.1 - 23.9	0.919	0 - 2.32
o-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.5	87.5%	18.3	91.5%	14.4 - 24.4	0.566	0 - 2.72
m-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.3	86.5%	18.4	92.0%	14.6 - 24.0	0.778	0 - 2.65
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	20	<0.5	17.2	86.0%	18.4	92.0%	14.5 - 23.9	0.849	0 - 2.67
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	20	<2	14.4	72.0%	16.6	83.0%	8.82 - 26.1	1.56	0 - 4.81
1,1-dichloroethane	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	16.1	80.5%	13.8 - 26.2	0.212	0 - 3.63
1,2-dichloroethane	ug/L	EPA8260	06-25-99	20	<1	17.7	88.5%	18.9	94.5%	14.1 - 25.5	0.849	0 - 3.48
1,1-dichloroethene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.8	94.0%	13.4 - 25.2	1.13	0 - 3.44
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	18.3	91.5%	14.6 - 24.6	1.34	0 - 2.83
trans-1,2-dichloroethene	ug/L	EPA8260	06-25-99	20	<2	16.2	81.0%	18.2	91.0%	12.8 - 26.1	1.41	0 - 3.63
1,2-dichloroethene	ug/L	EPA8260	06-25-99	40	<1	32.5	81.3%	36.5	91.3%	27.8 - 50.5	2.83	0 - 6.04
1,2-dichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.2	96.0%	15.1 - 24.6	0.919	0 - 2.35
1,3-dichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.2	96.0%	15.6 - 24.4	0.990	0 - 2.57
2,2-dichloropropane	ug/L	EPA8260	06-25-99	20	<3	16.3	81.5%	18.1	90.5%	5.64 - 25.8	1.27	0 - 6.50
1,1-dichloropropene	ug/L	EPA8260	06-25-99	20	<0.5	16.5	82.5%	17.3	86.5%	13.8 - 23.9	0.566	0 - 2.79
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.9	94.5%	15.0 - 23.8	0.919	0 - 2.54
trans-1,3-dichloropropene	ug/L	EPA8260	06-25-99	20	<1	17.1	85.5%	18.4	92.0%	13.8 - 25.0	0.919	0 - 3.26
Ethylbenzene	ug/L	EPA8260	06-25-99	20	<0.5	18.2	91.0%	19.3	96.5%	14.6 - 24.3	0.778	0 - 2.63
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	20	<1	18.3	91.5%	19.2	96.0%	15.0 - 23.7	0.636	0 - 2.85
2-Hexanone	ug/L	EPA8260	06-25-99	20	<10	15.8	79.0%	17.3	86.5%	10.8 - 28.3	1.06	0 - 3.93
Isopropylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.5	92.5%	13.4 - 24.6	0.919	0 - 3.17
4-isopropyltoluene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.0	95.0%	15.5 - 23.0	0.849	0 - 2.30
Methylene chloride	ug/L	EPA8260	06-25-99	20	<1	16.4	82.0%	19.3	96.5%	12.9 - 27.5	2.05	0 - 4.47
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	20	<1	15.8	79.0%	17.8	89.0%	8.70 - 27.9	1.41	0 - 4.39
2-butanone	ug/L	EPA8260	06-25-99	20	<10	11.5	57.5%	15.0	75.0%	8.34 - 31.0	2.47	0 - 7.03
Methyl iodide	ug/L	EPA8260	06-25-99	20	<1	15.2	76.0%	17.9	89.5%	10.4 - 32.4	1.91	0 - 5.04
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	20	<10	16.6	83.0%	13.8	69.0%	7.62 - 27.9	1.98	0 - 5.01
Naphthalene	ug/L	EPA8260	06-25-99	20	<1	17.9	89.5%	19.6	98.0%	12.5 - 26.7	1.20	0 - 4.51
Propylbenzene	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	19.1	95.5%	14.9 - 23.6	0.778	0 - 2.42
Styrene	ug/L	EPA8260	06-25-99	20	<1	16.2	81.0%	17.6	88.0%	15.0 - 26.6	0.990	0 - 2.65
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	20	<1	18.6	93.0%	19.8	99.0%	15.7 - 24.0	0.849	0 - 2.60
1,1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	20	<1	17.3	86.5%	18.4	92.0%	11.7 - 25.9	0.778	0 - 4.10
Tetrachloroethene	ug/L	EPA8260	06-25-99	40	<1	29.2	73.0%	31.9	79.8%	22.3 - 55.7	1.91	0 - 10.2
Toluene	ug/L	EPA8260	06-25-99	20	<0.5	17.8	89.0%	18.9	94.5%	13.8 - 25.0	0.778	0 - 3.07



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 2

Matrix Spike Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Analysis Method	Date	Spike Added	Sample Conc.	MS Conc.	MS Rec.	MSD Conc.	MSD Rec.	Acceptable Limits	STD Rec.	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	20	<1	17.2	86.0%	18.2	91.0%	13.3 - 25.8	0.707	0 - 3.87
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	19.1	95.5%	13.4 - 25.0	0.919	0 - 3.57
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	20	<1	18.0	90.0%	19.2	96.0%	13.8 - 25.7	0.849	0 - 3.10
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	20	<1	17.8	89.0%	18.8	94.0%	15.7 - 24.3	0.707	0 - 2.51
Trichloroethene	ug/L	EPA8260	06-25-99	20	<1	20.9	105%	22.0	110%	13.1 - 28.1	0.778	0 - 3.77
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	20	<2	17.0	85.0%	18.6	93.0%	7.48 - 28.7	1.13	0 - 5.06
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.9	94.5%	12.3 - 27.3	0.919	0 - 3.99
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.6	93.0%	14.2 - 24.4	0.707	0 - 3.05
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	20	<1	17.6	88.0%	18.7	93.5%	15.0 - 23.6	0.778	0 - 2.62
Vinyl acetate	ug/L	EPA8260	06-25-99	20	<1	16.9	84.5%	19.9	99.5%	7.20 - 30.5	2.12	0 - 7.42
Vinyl chloride	ug/L	EPA8260	06-25-99	20	<0.5	17.5	87.5%	19.1	95.5%	11.7 - 27.5	1.13	0 - 5.40
Xylene	ug/L	EPA8260	06-25-99	60	<0.5	55.1	91.8%	58.0	96.7%	43.6 - 73.6	2.05	0 - 7.52



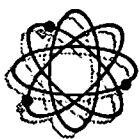
FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	Concentration
Silver	mg/L	EPA6020	06-23-99	<0.00005
Arsenic	mg/L	EPA6020	06-23-99	<0.00005
Barium	mg/L	EPA6020	06-23-99	<0.0004
Beryllium	mg/L	EPA6020	06-23-99	<0.0001
Cadmium	mg/L	EPA6020	06-23-99	<0.00005
Cobalt	mg/L	EPA6020	06-23-99	<0.0001
Chromium	mg/L	EPA6020	06-23-99	<0.0002
Copper	mg/L	EPA6020	06-23-99	<0.0002
Nickel	mg/L	EPA6020	06-23-99	<0.0002
Lead	mg/L	EPA6020	06-23-99	<0.0001
Antimony	mg/L	EPA6020	06-23-99	<0.0002
Selenium	mg/L	EPA6020	06-23-99	<0.0003
Thallium	mg/L	EPA6020	06-23-99	<0.0001
Vanadium	mg/L	EPA6020	06-23-99	<0.00006
Zinc	mg/L	EPA6020	06-23-99	<0.0007
Acetone	ug/L	EPA8260	06-25-99	<10
Acrylonitrile	ug/L	EPA8260	06-25-99	<1
Benzene	ug/L	EPA8260	06-25-99	<0.5
Bromobenzene	ug/L	EPA8260	06-25-99	<1
Bromochloromethane	ug/L	EPA8260	06-25-99	<1
Bromodichloromethane	ug/L	EPA8260	06-25-99	<1
Bromoform	ug/L	EPA8260	06-25-99	<1
Bromomethane	ug/L	EPA8260	06-25-99	<5
n-butylbenzene	ug/L	EPA8260	06-25-99	<1
sec-butylbenzene	ug/L	EPA8260	06-25-99	<1
tert-butylbenzene	ug/L	EPA8260	06-25-99	<1
Carbon disulfide	ug/L	EPA8260	06-25-99	<5
Carbon tetrachloride	ug/L	EPA8260	06-25-99	<1
Chlorobenzene	ug/L	EPA8260	06-25-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	Concentration
Chloroethane	ug/L	EPA8260	06-25-99	<1
Chloroform	ug/L	EPA8260	06-25-99	<1
Chloromethane	ug/L	EPA8260	06-25-99	<5
2-chlorotoluene	ug/L	EPA8260	06-25-99	<0.5
4-chlorotoluene	ug/L	EPA8260	06-25-99	<0.5
Dibromochloromethane	ug/L	EPA8260	06-25-99	<1
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-25-99	<1
1,2-dibromoethane	ug/L	EPA8260	06-25-99	<1
Dibromomethane	ug/L	EPA8260	06-25-99	<1
o-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
m-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	<0.5
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	<2
t-1,4-dichloro-2-butene	ug/L	EPA8260	06-25-99	<10
1,1-dichloroethane	ug/L	EPA8260	06-25-99	<1
1,2-dichloroethane	ug/L	EPA8260	06-25-99	<1
1,1-dichloroethene	ug/L	EPA8260	06-25-99	<1
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	<1
t-1,2-dichloroethene	ug/L	EPA8260	06-25-99	<2
1,2-dichloroethene	ug/L	EPA8260	06-25-99	<1
1,2-dichloropropane	ug/L	EPA8260	06-25-99	<1
1,3-dichloropropane	ug/L	EPA8260	06-25-99	<1
2,2-dichloropropane	ug/L	EPA8260	06-25-99	<3
1,1-dichloropropene	ug/L	EPA8260	06-25-99	<0.5
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	<1
trans-1,3,-dichloropropene	ug/L	EPA8260	06-25-99	<1
Ethylbenzene	ug/L	EPA8260	06-25-99	<0.5
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	<1
2-Hexanone	ug/L	EPA8260	06-25-99	<10



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 3

Method Blank Report

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	Concentration
Hexachloroethane	ug/L	EPA8260	06-25-99	<1
Isopropylbenzene	ug/L	EPA8260	06-25-99	<1
4-isopropyltoluene	ug/L	EPA8260	06-25-99	<1
Methylene chloride	ug/L	EPA8260	06-25-99	<1
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	<1
2-butanone	ug/L	EPA8260	06-25-99	<10
Methyl_iodide	ug/L	EPA8260	06-25-99	<1
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	<10
Naphthalene	ug/L	EPA8260	06-25-99	<1
Propylbenzene	ug/L	EPA8260	06-25-99	<1
Styrene	ug/L	EPA8260	06-25-99	<1
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	<1
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	<1
Tetrachloroethene	ug/L	EPA8260	06-25-99	<1
Toluene	ug/L	EPA8260	06-25-99	<0.5
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	<1
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	<1
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	<1
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	<1
Trichloroethene	ug/L	EPA8260	06-25-99	<1
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	<2
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	<1
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	<1
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	<1
Vinyl acetate	ug/L	EPA8260	06-25-99	<1
Vinyl chloride	ug/L	EPA8260	06-25-99	<0.5
Xylene	ug/L	EPA8260	06-25-99	<0.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
Silver	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.081 - 0.120
Arsenic	mg/L	EPA6020	06-23-99	0.100	0.098	98.4%	0.086 - 0.114
Barium	mg/L	EPA6020	06-23-99	0.100	0.108	108%	0.086 - 0.115
Beryllium	mg/L	EPA6020	06-23-99	0.100	0.104	104%	0.067 - 0.132
Cadmium	mg/L	EPA6020	06-23-99	0.100	0.099	99.4%	0.088 - 0.113
Cobalt	mg/L	EPA6020	06-23-99	0.100	0.105	105%	0.086 - 0.116
Chromium	mg/L	EPA6020	06-23-99	0.100	0.107	107%	0.084 - 0.115
Copper	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.081 - 0.118
Nickel	mg/L	EPA6020	06-23-99	0.100	0.103	103%	0.083 - 0.115
Lead	mg/L	EPA6020	06-23-99	0.100	0.091	91.4%	0.085 - 0.119
Antimony	mg/L	EPA6020	06-23-99	0.100	0.093	93.4%	0.086 - 0.111
Selenium	mg/L	EPA6020	06-23-99	0.100	0.106	106%	0.084 - 0.116
Thallium	mg/L	EPA6020	06-23-99	0.100	0.092	92.2%	0.085 - 0.119
Vanadium	mg/L	EPA6020	06-23-99	0.100	0.108	108%	0.085 - 0.116
Zinc	mg/L	EPA6020	06-23-99	0.100	0.106	106%	0.080 - 0.119
Acetone	ug/L	EPA8260	06-25-99	100	85.9	85.9%	39.5 - 163
Benzene	ug/L	EPA8260	06-25-99	10.0	9.71	97.1%	6.75 - 13.2
Bromobenzene	ug/L	EPA8260	06-25-99	10.0	9.81	98.1%	7.47 - 12.1
Bromochloromethane	ug/L	EPA8260	06-25-99	10.0	9.31	93.1%	7.65 - 11.7
Bromodichloromethane	ug/L	EPA8260	06-25-99	10.0	8.90	89.0%	8.25 - 11.6
Bromoform	ug/L	EPA8260	06-25-99	10.0	8.03	80.3%	6.66 - 12.7
Bromomethane	ug/L	EPA8260	06-25-99	10.0	8.86	88.6%	5.99 - 14.2
n-butylbenzene	ug/L	EPA8260	06-25-99	10.0	9.93	99.3%	7.08 - 12.0
sec-butylbenzene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.45 - 12.2
tert-butylbenzene	ug/L	EPA8260	06-25-99	10.0	10.6	106%	6.94 - 13.0
Carbon disulfide	ug/L	EPA8260	06-25-99	10.0	9.65	96.5%	5.01 - 16.0
Carbon tetrachloride	ug/L	EPA8260	06-25-99	10.0	8.51	85.1%	6.45 - 13.4
Chlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.69	96.9%	8.58 - 11.6
Chloroethane	ug/L	EPA8260	06-25-99	10.0	10.7	107%	5.39 - 14.5
Chloroform	ug/L	EPA8260	06-25-99	10.0	11.0	110%	7.49 - 13.1
Chloromethane	ug/L	EPA8260	06-25-99	10.0	9.23	92.3%	3.89 - 14.0
2-chlorotoluene	ug/L	EPA8260	06-25-99	10.0	10.7	107%	7.02 - 12.6
4-chlorotoluene	ug/L	EPA8260	06-25-99	10.0	9.46	94.6%	7.15 - 12.4
Dibromochloromethane	ug/L	EPA8260	06-25-99	10.0	8.62	86.2%	7.87 - 11.7
1,2-dibromo-3-chloropropane	ug/L	EPA8260	06-25-99	10.0	8.39	83.9%	5.94 - 12.5



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2-dibromoethane	ug/L	EPA8260	06-25-99	10.0	9.14	91.4%	8.20 - 11.4
Dibromomethane	ug/L	EPA8260	06-25-99	10.0	9.17	91.7%	8.34 - 11.9
o-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.49	94.9%	7.86 - 12.1
m-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.39	93.9%	7.98 - 11.9
Para-dichlorobenzene	ug/L	EPA8260	06-25-99	10.0	9.41	94.1%	7.83 - 12.1
Dichlorodifluoromethane	ug/L	EPA8260	06-25-99	10.0	8.26	82.6%	4.22 - 13.5
1,1-dichloroethane	ug/L	EPA8260	06-25-99	10.0	8.35	83.5%	7.10 - 13.1
1,2-dichloroethane	ug/L	EPA8260	06-25-99	10.0	9.11	91.1%	7.76 - 12.4
1,1-dichloroethene	ug/L	EPA8260	06-25-99	10.0	9.69	96.9%	6.33 - 13.0
cis-1,2-dichloroethene	ug/L	EPA8260	06-25-99	10.0	10.8	108%	7.83 - 11.9
t-1,2-dichloroethene	ug/L	EPA8260	06-25-99	10.0	9.47	94.7%	6.61 - 12.9
1,2-dichloroethene	ug/L	EPA8260	06-25-99	20.0	20.3	102%	14.3 - 25.3
1,2-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.50	95.0%	7.56 - 12.2
1,3-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.51	95.1%	8.38 - 11.5
2,2-dichloropropane	ug/L	EPA8260	06-25-99	10.0	9.26	92.6%	2.87 - 13.4
1,1-dichloropropene	ug/L	EPA8260	06-25-99	10.0	8.56	85.6%	7.31 - 11.7
cis-1,3-dichloropropene	ug/L	EPA8260	06-25-99	10.0	9.08	90.8%	7.18 - 11.8
trans-1,3,-dichloropropene	ug/L	EPA8260	06-25-99	10.0	8.37	83.7%	6.99 - 12.1
Ethylbenzene	ug/L	EPA8260	06-25-99	10.0	9.83	98.3%	7.48 - 12.5
Hexachlorobutadiene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.25 - 12.5
2-Hexanone	ug/L	EPA8260	06-25-99	10.0	8.33	83.3%	6.00 - 13.7
Isopropylbenzene	ug/L	EPA8260	06-25-99	10.0	9.89	98.9%	6.75 - 13.7
4-isopropyltoluene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.62 - 11.9
Methylene chloride	ug/L	EPA8260	06-25-99	10.0	9.97	99.7%	6.48 - 13.9
Methyl-tert-butylether	ug/L	EPA8260	06-25-99	10.0	8.50	85.0%	4.59 - 14.7
2-butanone	ug/L	EPA8260	06-25-99	10.0	9.13	91.3%	4.38 - 16.0
Methyl iodide	ug/L	EPA8260	06-25-99	10.0	9.40	94.0%	5.94 - 16.3
4-methyl-2-pentanone	ug/L	EPA8260	06-25-99	10.0	10.1	101%	4.26 - 13.1
Naphthalene	ug/L	EPA8260	06-25-99	10.0	8.49	84.9%	3.63 - 14.7
Propylbenzene	ug/L	EPA8260	06-25-99	10.0	10.3	103%	7.16 - 12.3
Styrene	ug/L	EPA8260	06-25-99	10.0	8.53	85.3%	7.76 - 13.0
1,1,1,2-tetrachloroethane	ug/L	EPA8260	06-25-99	10.0	9.39	93.9%	7.87 - 11.8
1,1,2,2-tetrachloroethane	ug/L	EPA8260	06-25-99	10.0	9.44	94.4%	6.21 - 12.8
Tetrachloroethene	ug/L	EPA8260	06-25-99	20.0	18.3	91.5%	11.3 - 27.9
Toluene	ug/L	EPA8260	06-25-99	10.0	9.75	97.5%	7.07 - 13.1



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 4

QCCS Sample Recovery

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Analyte	Unit	Method	Date	QCCS Expected	QCCS Measured	Rec. %	Acceptable Limits
1,2,3-trichlorobenzene	ug/L	EPA8260	06-25-99	10.0	8.60	86.0%	5.43 - 13.4
1,2,4-trichlorobenzene	ug/L	EPA8260	06-25-99	10.0	8.70	87.0%	5.52 - 12.8
1,1,1-trichloroethane	ug/L	EPA8260	06-25-99	10.0	9.63	96.3%	7.65 - 12.4
1,1,2-trichloroethane	ug/L	EPA8260	06-25-99	10.0	9.08	90.8%	8.46 - 11.5
Trichloroethene	ug/L	EPA8260	06-25-99	10.0	10.9	109%	6.36 - 14.6
Trichlorofluoromethane	ug/L	EPA8260	06-25-99	10.0	9.50	95.0%	1.48 - 15.6
1,2,3-trichloropropane	ug/L	EPA8260	06-25-99	10.0	9.73	97.3%	6.45 - 13.5
1,2,4-trimethylbenzene	ug/L	EPA8260	06-25-99	10.0	10.1	101%	7.52 - 12.2
1,3,5-trimethylbenzene	ug/L	EPA8260	06-25-99	10.0	9.99	99.9%	7.29 - 12.3
Vinyl acetate	ug/L	EPA8260	06-25-99	10.0	9.83	98.3%	2.89 - 16.5
Vinyl chloride	ug/L	EPA8260	06-25-99	10.0	8.39	83.9%	5.44 - 14.0
Xylene	ug/L	EPA8260	06-25-99	30.0	29.4	98.0%	21.7 - 38.3



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Received	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Control Mean	Control Std	Lot Mean	Lot Std
					Standard				Lot							
Silver OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-140AS 9AFS30Z2192 14-140AS	827 909 827	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-03-98 04-19-99 11-03-98	05-03-99 12-31-99 05-03-99	2.66	±2.00	0.935	0.078	1.14	0.358
Arsenic OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99	4.77	>1.67	0.973	0.063	1.03	0.050
Barium OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	827 909 827	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Beryllium OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Cadmium OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Cobalt OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99	8.01	>1.69	1.01	0.039	0.962	0.029
Chromium OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Copper OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Nickel OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-03-98 04-19-99 11-03-98	05-03-99 12-31-99 05-03-99						
Lead OCCS Matrix Spike	Fisher QCD Analysts Fisher	14-137AS 9AFS30Z2192 14-137AS	826 909 826	EVB LSM EVB	11-03-98 04-19-99 11-03-98	08-31-99 12-31-99 08-31-99	994 1195 994	EVB LSM EVB	11-05-98 04-19-99 11-05-98	11-05-99 12-31-99 11-05-99						
Antimony OCCS	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Control Mean	Control Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Selenium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-05-98	11-05-99						
Thallium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	08-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	08-31-99						
Vanadium	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99			1.01	0.149	0.995	0.020
QCCS	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99			1.01	0.149	0.995	0.020
Matrix Spike	Fisher	14-137AS	826	EVB	11-03-98	08-31-99	994	EVB	11-03-98	05-03-99			1.01	0.149	0.995	0.020
Zinc	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
QCCS	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Matrix Spike	QCD Analysts	9AFS30Z2192	909	LSM	04-19-99	12-31-99	1195	LSM	04-19-99	12-31-99						
Acetone	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.16	±1.97	0.978	0.089	1.20	0.367
Benzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.13	>1.68	0.976	0.052	1.02	0.039
Bromobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.65	>1.68	1.02	0.049	1.07	0.024
Bromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.05	0.103	1.03	0.005
Bromodichloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.947	0.054	0.981	0.005
Bromoform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.70	>1.76	1.02	0.061	1.07	0.043
Bromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.974	0.035	1.17	0.045
n-butylbenzene																
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.53	>1.68	1.03	0.054	1.02	0.024
sec-butylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.994	0.047	1.00	
tert-butylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	3.47	>1.68	1.04	0.054	1.15	0.065
Carbon disulfide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	6.88	>1.68	1.00	0.056	1.02	0.031
Carbon tetrachloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.57	>1.76	0.995	0.074	1.03	0.026
Chlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.44	>1.75	1.00	0.052	1.01	0.027
Chloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.76	>1.76	0.993	0.074	1.01	0.053
Chloroform	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.79	>1.76	0.966	0.053	1.03	0.036
Chloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.23	>1.68	0.954	0.079	0.944	0.034
2-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.056	1.07	0.003
4-chlorotoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.92	>1.68	1.01	0.054	1.01	0.033
Dibromochloromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.11	>1.76	0.973	0.063	1.01	0.029
1,2-dibromo-3-chloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.989	0.103	0.975	0.025
1,2-dibromoethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.77	>1.69	1.03	0.062	0.964	0.036
Dibromomethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.07	0.118	1.02	0.003
o-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.33	>1.75	1.03	0.068	1.07	0.059
m-dichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.00	0.059	1.09	0.047
Dichlorodifluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.20	>1.68	1.01	0.082	1.01	0.039
1,1-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.85	>1.65	0.954	0.086	1.10	0.109
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.00	>1.65	0.954	0.086	1.04	0.029
1,2-dichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.18	>1.65	0.978	0.083	0.986	0.023
1,1-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	1.77	>1.65	0.942	0.093	1.08	0.062
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.942	0.093	0.993	0.020
cis-1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	>1.69	1.01	0.028	1.02	0.069
1,1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
1,2-dichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.88	>1.68	1.05	0.210	1.03	0.053
1,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.096	1.00	0.011
1,3-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.40	>1.69	0.996	0.097	1.00	0.013
2,2-dichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.47	±2.01	1.04	0.168	0.752	0.174
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	-1.02	±2.02	1.04	0.168	0.964	0.085
1,1-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	8.47	>1.69	1.02	0.043	0.989	0.031
cis-1,3-dichloropropene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.42	>1.77	0.977	0.063	1.02	0.029
trans-1,3-dichloropropene	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Ethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	7.35	>1.68	0.975	0.047	1.01	0.028
Hexachlorobutadiene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	8.93	±2.03	0.736	0.125	1.04	0.045
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	10.8	±1.98	0.736	0.125	1.01	0.105
2-Hexanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.27	>1.68	1.03	0.095	1.03	0.087
Isopropylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	6.64	>1.68	1.02	0.045	1.08	0.031
4-isopropyltoluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.040	1.01	0.003
Methylene chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.36	±2.06	1.00	0.061	1.18	0.094
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	1.97	>1.77	1.00	0.061	1.13	0.056
Methyl-tert-butylether	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.74	>1.71	0.951	0.066	0.999	0.044
2-butanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.19	±1.99	1.01	0.167	1.15	0.230
Methyl iodide	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99	5.87	±2.00	1.00	0.051	1.17	0.157
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.46	>1.68	1.00	0.051	1.09	0.051
4-methyl-2-pentanone	EMS	A8060237	766	CLS	07-01-98	10-22-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.975	0.066	0.889	0.008
Naphthalene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99						
Propylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99	5.70	>1.69	1.03	0.054	1.09	0.032
Styrene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	01-30-99	895	CLS	07-13-98	07-13-99			0.982	0.026	1.14	0.030
1,1,1,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	5.28	>1.76	0.962	0.049	1.02	0.036
QCCS																



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
			Standard				Lot									
Matrix Spike																
1,1,2,2-tetrachloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	2.93	>1.68	0.996	0.110	1.05	0.031
Tetrachloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	2.73	±2.07	0.949	0.045	1.10	0.175
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.10	>1.76	0.949	0.045	0.986	0.104
Toluene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	5.71	>1.68	0.986	0.067	1.01	0.032
1,2,3-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99	12.2	±2.01	1.02	0.064	0.723	0.107
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	7.83	±1.99	1.02	0.064	0.847	0.125
1,2,4-trichlorobenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.06	>1.70	0.748	0.113	0.784	0.057
1,1,1-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	4.92	>1.65	0.979	0.079	1.01	0.037
1,1,2-trichloroethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			0.992	0.418	0.975	0.009
Trichloroethene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99	3.63	±1.98	0.974	0.056	1.14	0.153
Trichlorofluoromethane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
1,2,3-trichloropropane	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.24	1.43	1.09	0.010
1,2,4-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002



FLOWERS CHEMICAL LABORATORIES, INC.

QA Section 5

Standards Traceability

Client: Pasco Co. Utilities Env. Lab
Project Number: Res Rec Rain H2O
P.O. Number: 110456
Date Sampled: 21-Jun-99
Lab Numbers: 8285 - 8286

Compound Name	Manufacturer Name	Manufacturer Lot #	Rec Lot #	Rec By	Date Recieved	Valid Until	Prep Lot #	Prep By	Date Prepared	Valid Until	t-test	t-test range	Contro Mean	Contro Std	Lot Mean	Lot Std
					Standard				Lot							
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.01	0.025	1.05	0.002
1,3,5-trimethylbenzene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99			1.02	0.030	1.06	
Vinyl acetate	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0600	769	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Vinyl chloride	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	M-0195	768	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
M&P-Xylene	Ultra	L-0405	765	CLS	07-01-98	04-30-99	894	CLS	07-13-98	07-13-99						
QCCS	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
Matrix Spike	Ultra	L-0029	767	CLS	07-01-98	12-30-99	895	CLS	07-13-98	07-13-99						
EPA6020 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
EPA8260 Blank	Flowers Chemical Laboratories	Valid	34	JSF	01-01-95	12-31-99	14	JSF	01-01-95	01-01-97						
Surrogate Spike1	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.01	0.083		
Surrogate Spike2	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			1.00	0.034		
Surrogate Spike3	EMS	095-017	289	FG	10-05-95	12-30-99	268	FG	10-05-95	10-05-96			0.989	0.043		