

07/28/05



Technical Report for

Tetra Tech NUS

Former American Beryllium, Sarasota, FL

N1075

Accutest Job Number: F33504

Sampling Date: 07/25/05

Report to:

Total number of pages in report:



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

Tetra Tech NUS

Job No: F33504

Former American Beryllium, Sarasota, FL
Project No: N1075

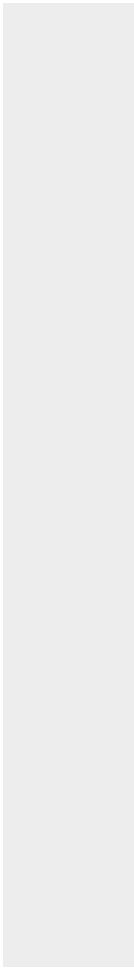
Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F33504-1	07/25/05	10:45	SRM	07/26/05	AQ Ground Water	TT-MW-125

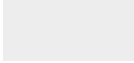


Report of Analysis

Client Sample ID: TT-MW-125	Date Sampled: 07/25/05
Lab Sample ID: F33504-1	Date Received: 07/26/05
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Former American Beryllium, Sarasota, FL	

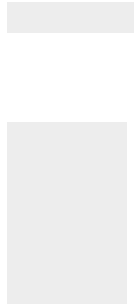
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Report of Analysis

Client Sample ID: TT-MW-125
Lab Sample ID: F33504-1

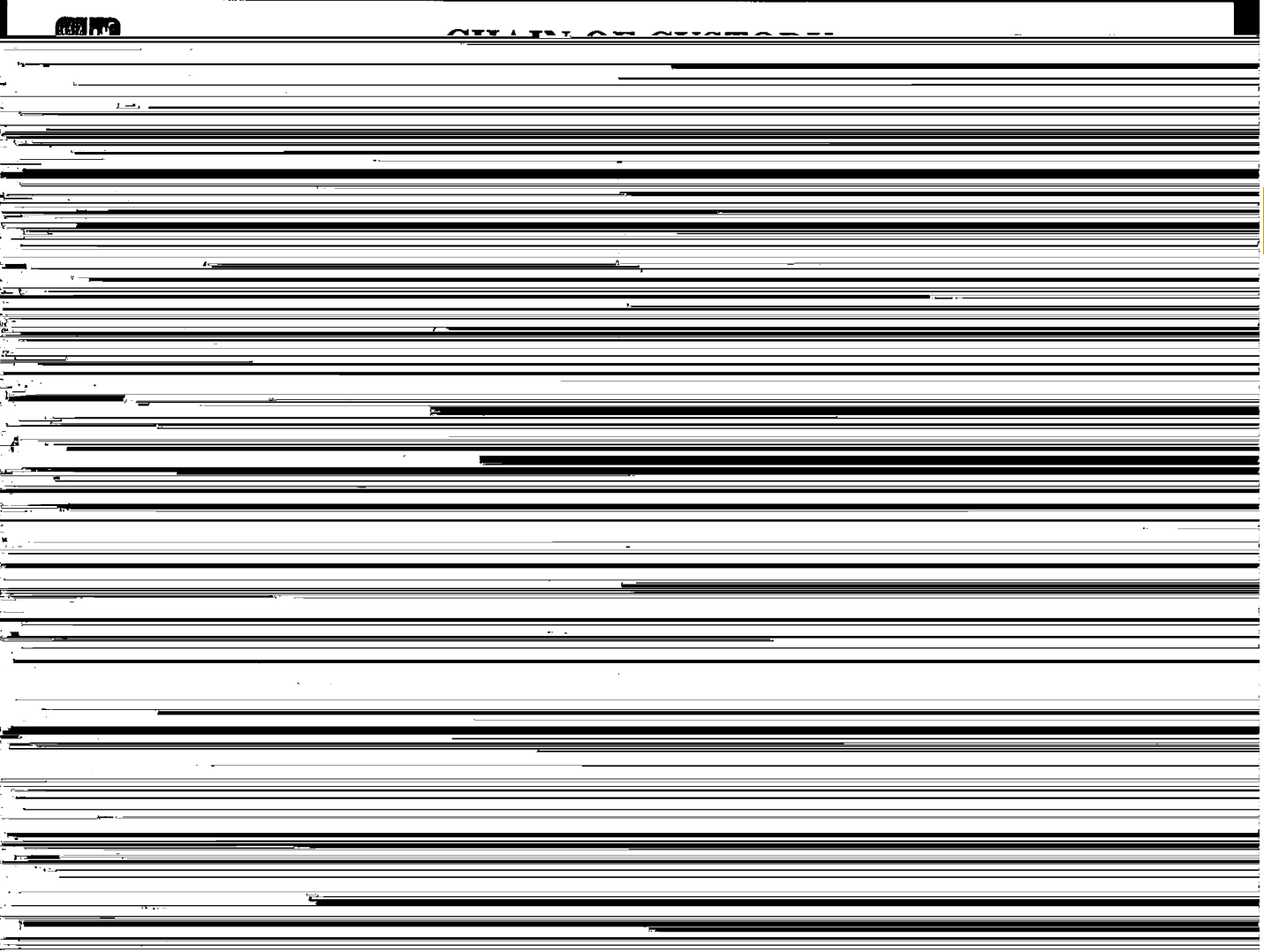


Misc. Forms

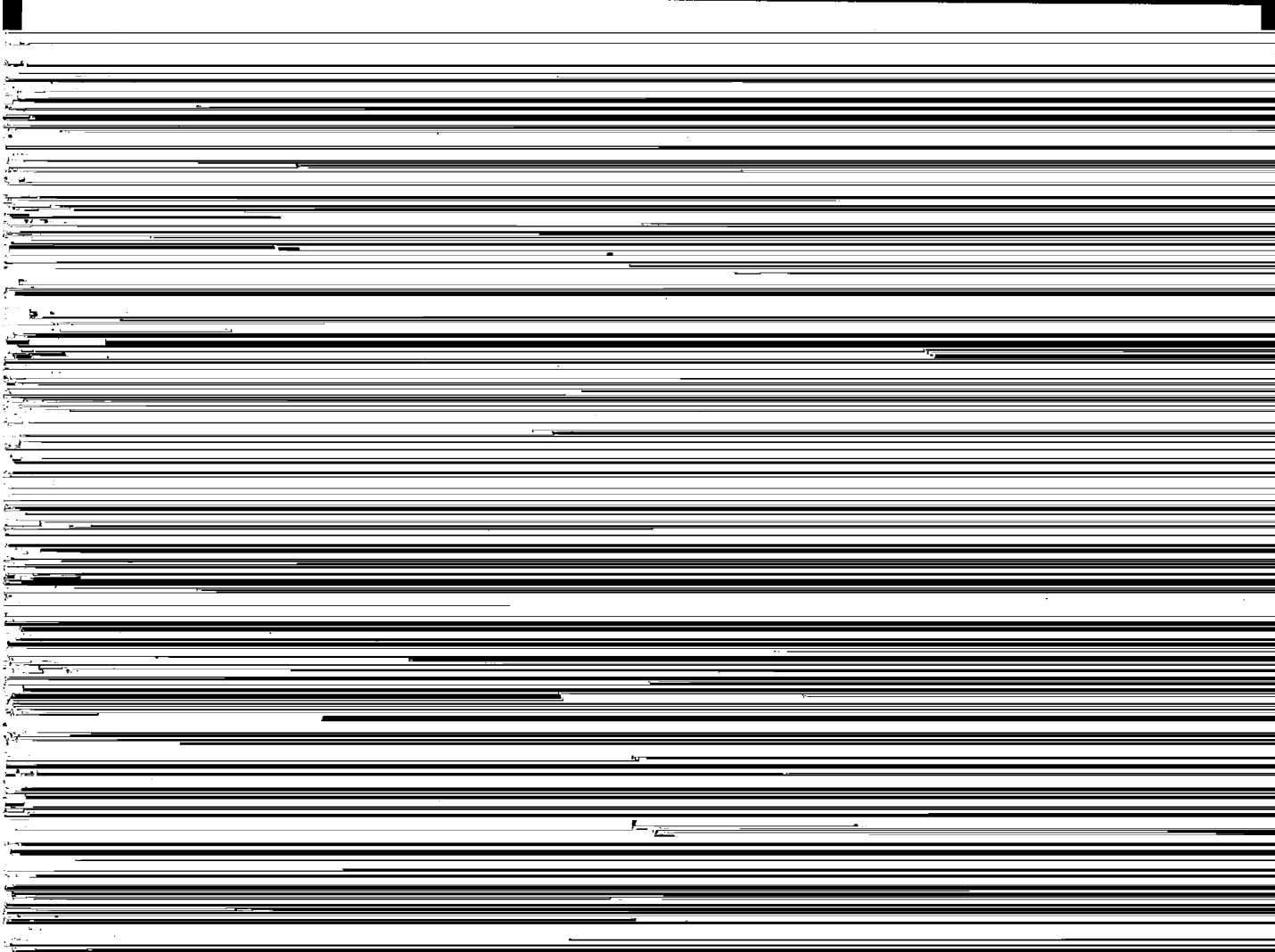
Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



F33504: Chain of Custody
Page 1 of 2



F33504: Chain of Custody
Page 2 of 2

GC/MS Volatiles

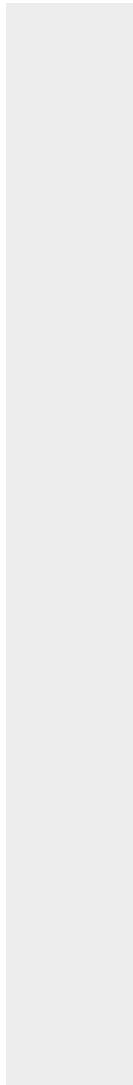
QC Data Summaries

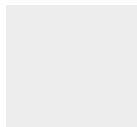
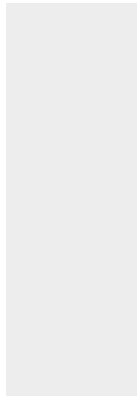
Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

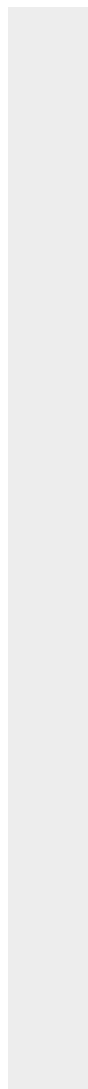
Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

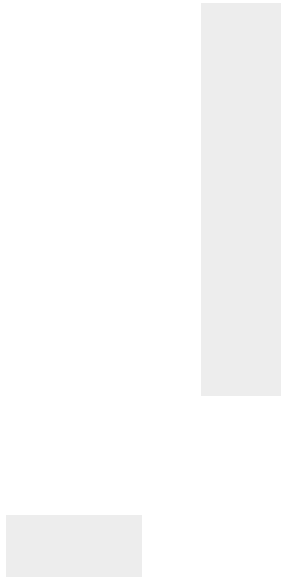


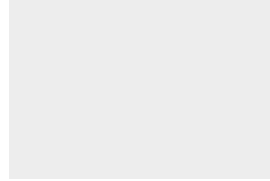
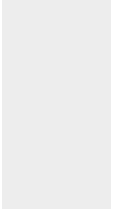


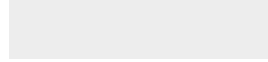
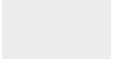
Blank Spike Summary

Job Number:







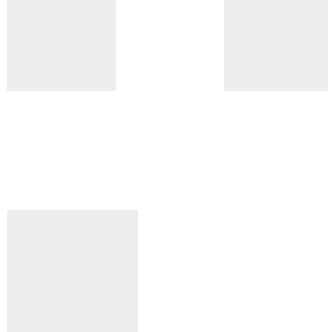


Volatile Surrogate Recovery Summary

Job Number: F33504

Account: TETFLTAM Tetra Tech NUS

Project:



Initial Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICC703
Lab FileID: J016859.D

Response Factor Report MSVOA6

Method : C:\MSDCHEM\1\METHODS\MSJ0626A.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Jul 27 08:26:53 2005
Response via : Initial Calibration

Calibration Files

1 =J016856.D 2 =J016857.D 3 =J016858.D 4 =J016859.D
5 =J016860.D 6 =J016861.D

Compound	1	2	3	4	5	6	Avg	%RSD
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4.6
4

Initial Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICC703
Lab FileID: J016859.D

47)	2-Chl oroethyl vi nyl	0.075	0.092	0.106	0.109	0.111	0.108	0.100	14.00
48)	ci s-1, 3-Di chl oropro	0.312	0.338	0.397	0.400	0.402	0.399	0.375	10.51
49) I	Chl orobenzene-d5	-----I STD-----							
50) S	Tol uene-d8	1.290	1.297	1.281	1.294	1.327	1.346	1.306	1.95
51) C	Tol uene	1.220	1.081	1.307	1.292	1.330	1.347	1.263	7.85
52)	2-Ni trop propane	0.057	0.067	0.074	0.078	0.080	0.077	0.072	11.91
53)	4-Methyl -2-pentan on	0.265	0.298	0.323	0.331	0.338	0.329	0.314	8.75
54)	trans-1, 3-Di chl orop	0.346	0.390	0.439	0.451	0.464	0.465	0.426	11.24
55)	Tetrachl oroethene	0.283	0.246	0.314	0.308	0.313	0.322	0.298	9.64
56)	1, 1, 2-Tri chl oroetha	0.212	0.224	0.243	0.248	0.254	0.254	0.239	7.31
57)	Di bromochl oromethan	0.240	0.265	0.305	0.313	0.322	0.330	0.296	11.97
58)	1, 3-Di chl oropropane	0.422	0.446	0.476	0.486	0.498	0.500	0.471	6.62
59)	1, 2-Di bromoethane	0.217	0.256	0.277	0.287	0.293	0.300	0.272	11.40
60)	2-hexanone	0.195	0.230	0.283	0.273	0.273	0.263	0.253	13.37
61)	1-Chl orohexane	0.283	0.298	0.425	0.422	0.423	0.432	0.380	18.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.40839 *A + 0.01163 *A^2									
62) C	Ethyl benzene	1.414	1.241	1.508	1.497	1.531	1.544	1.456	7.87
63) P	Chl orobenzene	0.767	0.706	0.816	0.811	0.820	0.823	0.790	5.84
64)	1, 1, 1, 2-Tetrachl oro	0.245	0.253	0.297	0.300	0.304	0.310	0.285	9.89
65)	m, p-Xyl ene	1.040	0.969	1.184	1.192	1.223	1.229	1.139	9.52
66)	o-Xyl ene	1.014	1.011	1.232	1.241	1.274	1.291	1.177	10.99
67)	Styrene	0.734	0.764	0.954	0.981	1.012	1.029	0.912	14.20
68) P	Bromoform	0.153	0.174	0.209	0.224	0.234	0.243	0.206	17.18
69)	I sopropyl benzene	1.114	1.033	1.351	1.329	1.371	1.388	1.264	11.98
70) I	1, 4-Di chl orobenzene-d	-----I STD-----							
71) S	4-Bromofl uorobenzen	1.064	1.060	1.070	1.071	1.081	1.091	1.073	1.05
72)	n-Propyl benzene	3.059	2.719	3.471	3.423	3.458	3.459	3.265	9.52
73)	Bromobenzene	0.651	0.603	0.699	0.697	0.697	0.701	0.674	5.95
74) P	1, 1, 2, 2-Tetrachl oro	0.634	0.663	0.686	0.697	0.684	0.665	0.672	3.34
75)	1, 3, 5-Tri methyl benz	1.959	1.875	2.350	2.345	2.351	2.353	2.206	10.21
76)	2-Chl orotol uene	1.963	1.797	2.131	2.099	2.104	2.098	2.032	6.38
77)	trans-1, 4-Di chl oro-	0.147	0.181	0.190	0.201	0.198	0.184	0.184	11.90
78)	1, 2, 3-Tri chl oroprop	0.157	0.178	0.187	0.190	0.190	0.187	0.182	7.02
79)	Cycl ohexanone	0.064	0.016	0.018	0.019	0.020	0.020	0.026	70.47
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.01830 *A + 0.00022 *A^2									
80)	4-Chl orotol uene	1.923	1.795	2.145	2.124	2.147	2.138	2.045	7.35
81)	tert-Butyl benzene	1.221	1.130	1.420	1.387	1.399	1.395	1.325	9.07
82)	1, 2, 4-Tri methyl benz	2.165	1.945	2.391	2.383	2.410	2.404	2.283	8.32
83)	sec-Butyl benzene	2.683	2.385	3.140	3.050	3.059	3.052	2.895	10.26
84)	4-I sopropyl tol uene	2.058	1.818	2.338	2.267	2.283	2.267	2.172	9.12
85)	1, 3-Di chl orobenzene	1.268	1.098	1.285	1.272	1.279	1.290	1.249	5.96
86)	1, 4-Di chl orobenzene	1.268	1.098	1.332	1.303	1.309	1.311	1.270	6.85
87)	n-Butyl benzene	1.298	1.164	1.507	1.475	1.484	1.465	1.399	9.81
88)	Benzyl Chl ori de	0.128	0.174	0.216	0.223	0.226	0.222	0.198	19.79
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.22381 *A + -0.00045 *A^2									
89)	1, 2-Di chl orobenzene	1.204	1.081	1.234	1.213	1.208	1.215	1.193	4.67
90)	1, 2-Di bromo-3-Chl or	0.134	0.105	0.118	0.122	0.121	0.124	0.121	7.92
91)	Hexachl orobutadi ene	0.565	0.356	0.470	0.457	0.463	0.477	0.465	14.31
92)	1, 2, 4-Tri chl orobenz	1.069	0.728	0.833	0.839	0.835	0.856	0.860	13.03
93)	Naphthal ene	2.546	1.525	1.714	1.746	1.760	1.749	1.840	19.40
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999									
Response Ratio = 0.00000 + 1.74389 *A + 0.00403 *A^2									

Initial Calibration Summary

Initial Calibration Verification

Job Number:

Initial Calibration Verification

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICV703
Lab FileID: J016862.D

43	Methyl cycl ohexane	0.390	0.392	-0.5	102	0.00	11.38
44	Di bromomethane	0.140	0.142	-1.4	103	0.00	11.88
45 C	1, 2-Di chl oropropane	0.259	0.269	-3.9	106	0.00	11.98
46	Bromodi chl oromethane	0.331	0.344	-3.9	104	0.00	12.02
47	2-Chl oroethyl vinyl ether	0.100	0.138	-38.0#	136	0.00	12.61
48	ci s-1, 3-Di chl oropropene	0.375	0.386	-2.9	103	0.00	12.74
49 I	Chl orobenzene-d5	1.000	1.000	0.0	105	0.00	14.73
50 S	Tol uene-d8	1.306	1.310	-0.3	107	0.00	12.96
51 C	Tol uene	1.263	1.303	-3.2	106	0.00	13.02
52	2-Ni tropropane	0.072	0.076	-5.6	103	0.00	13.27
53	4-Methyl -2-pentanone	0.314	0.317	-1.0	101	0.00	13.38
54	trans-1, 3-Di chl oropropene	0.426	0.486	-14.1	114	0.00	13.46
55	Tetrachl oroethene	0.298	0.315	-5.7	108	0.00	13.49
56	1, 1, 2-Tri chl oroethane	0.239	0.245	-2.5	104	0.00	13.65
57	Di bromochl oromethane	0.296	0.310	-4.7	104	0.00	13.89

4.6
4

Initial Calibration Verification

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ703-ICV703
Lab FileID: J016862.D

89	1,2-Di chlorobenzene	1.193	1.240	-3.9	105	0.00	17.77
----	----------------------	-------	-------	------	-----	------	-------

4.6

4

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
Lab FileID: J016876.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072705\J016876.D
Acq On : 27 Jul 2005 8:29 am

Vial : 1
Operator: MunaM

4.6

4

Continuing Calibration Summary

Job Number: F33504
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
 Lab FileID: J016876.D

43	Methyl cycl ohexane	0.390	0.419	-7.4	86	0.00	11.38
44	Di bromomethane	0.140	0.143	-2.1	82	0.00	11.88
45 C	1, 2-Di chl oropropane	0.259	0.274	-5.8	85	0.00	11.98
46	Bromodi chl oromethane	0.331	0.362	-9.4	86	0.00	12.03
47	2-Chl oroethyl vi nyl ether	0.100	0.092	8.0	71	0.00	12.61
48	ci s-1, 3-Di chl oropropene	0.375	0.409	-9.1	86	0.00	12.74
49 I	Chl orobenzene-d5	1.000	1.000	0.0	86	0.00	14.73
50 S	Tol uene-d8	1.306	1.289	1.3	86	0.00	12.96
51 C	Tol uene	1.263	1.314	-4.0	88	0.00	13.02
52	2-Ni tropropane	0.072	0.072	0.0	80	0.00	13.27
53	4-Methyl -2-pentanone	0.314	0.291	7.3	76	0.00	13.38
54	trans-1, 3-Di chl oropropene	0.426	0.446	-4.7	85	0.00	13.46
55	Tetrachl oroethene	0.298	0.308	-3.4	86	0.00	13.49
56	1, 1, 2-Tri chl oroethane	0.239	0.238	0.4	83	0.00	13.66
57	Di bromochl oromethane	0.296	0.310	-4.7	86	0.00	13.89
58	1, 3-Di chl oropropane	0.471	0.469	0.4	83	0.00	13.98
59	1, 2-Di bromoethane	0.272	0.270	0.7	81	0.00	14.20
60	2-hexanone	0.253	0.196	22.5#	62	0.00	14.30
	----- Amount		Cal c.	%Dri ft			-----
61	1-Chl orohexane	40.000	40.236	-0.6	86	0.00	14.64

Continuing Calibration Summary

Job Number: F33504
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VJ704-CC703
 Lab FileID: J016876.D

89	1, 2-Di chl orobenzene	1.193	1.226	-2.8	87	0.00	17.77
90	1, 2-Di bromo-3-Chl oropropa	0.121	0.105	13.2	75	0.00	18.61
91	Hexachl orobutadi ene	0.465	0.434	6.7	82	0.00	19.26
92	1, 2, 4-Tri chl orobenzene	0.860	0.780	9.3	80	0.00	19.35
		----- Amount	Cal c.	%Dri ft	-----		
93	Naphthal ene	40.000	33.814	15.5	73	0.00	19.74
94	1, 2, 3-Tri chl orobenzene	40.000	33.875	15.3	73	0.00	19.98
		----- AvgRF	CCRF	%Dev	-----		
95 I	Tert Butyl Al cohol -d10	1.000	1.000	0.0	68	0.00	8.05
96	Tert Butyl Al cohol	0.908	0.904	0.4	68	0.00	8.15
		----- Amount	Cal c.	%Dri ft	-----		
97	tert Amyl al cohol	400.000	484.978	-21.2#	81	0.00	10.73
		----- AvgRF	CCRF	%Dev	-----		
98	1, 4-Di oxane	0.087	0.099	-13.8	71	0.00	12.24

(#) = Out of Range
 J016859.D MSJ0626A.M

SPCC's out = 0 CCC's out = 0
 Wed Jul 27 10:21:46 2005

GC/MS Semi-volatiles

QC Data Summaries

Method Blank Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13957-MB	F010527.D	1	07/27/05	NJ	07/26/05	OP13957	SF589

The QC reported here applies to the following samples:

Method: SW846 8270C

F33504-1

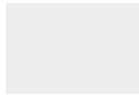
CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/l	

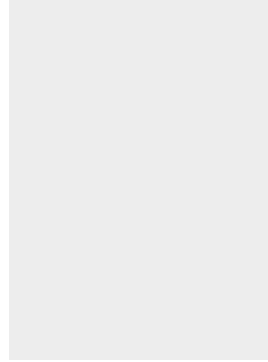
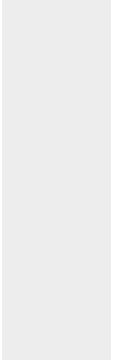
CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	83% 49-119%

Blank Spike Summary

Job Number: F33504

Account: TETFLTAM Tetra Tech NUS





Instrument Performance Check (DFTPP)

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample:	SF589-DFTPP	Injection Date:	07/27/05
Lab File ID:	F010524.D	Injection Time:	09:14
Instrument ID:	GCMSE		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F010546.D	07/27/05	20:08	10:54	(unrelated sample)

5.3
5



Semivolatile Surrogate Recovery Summary

Job Number:



Initial Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
Lab FileID: F010292.D

Response Factor Report MS-F

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Thu Jul 14 13:35:24 2005
Response via : Initial Calibration

Calibration Files

5 =F010289.D 25 =F010290.D 50 =F010291.D 75 =F010292.D

Initial Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
Lab FileID: F010292.D

43)C	2, 4, 6-Tri chl oroph	0.347	0.388	0.403	0.400	0.402	0.398	0.389	5.53
44)	2, 4, 5-Tri chl oroph	0.365	0.405	0.427	0.427	0.426	0.426	0.413	6.00
45)S	2-Fl uorobi phenyl	1.346	1.394	1.447	1.401	1.412	1.382	1.397	2.40
46)	1, 1' -Bi phenyl	1.416	1.479	1.544	1.561	1.521	1.551	1.512	3.66
47)	2-Chl oronaphthal e	1.112	1.181	1.207	1.191	1.196	1.197	1.181	2.94

5.6
5

Initial Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS

Sample: SF580-ICC580
Lab FileID: F010292.D

Initial Calibration Verification

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
Lab FileID: F010295.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071405\F010295.D

Vial : 8

Initial Calibration Verification

Job Number: F33504
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
 Lab FileID: F010295.D

		Amount	Cal c.	%Dri ft			
41 I	Acenaphthene-d10	40.000	40.000	0.0	90	0.00	7.81
		-----	-----	-----			
42 P	Hexachl orocycl opentadi ene	50.000	45.956	8.1	0	0.00	6.60
		-----	-----	-----			
43 C	2, 4, 6-Tri chl orophenol	50.000	51.560	-3.1	0	0.00	6.78
44	2, 4, 5-Tri chl orophenol	50.000	50.913	-1.8	0	0.00	6.84
45 S	2-Fl uorobi phenyl			-----NA-----			
46	1, 1' -Bi phenyl	50.000	51.266	-2.5	0	0.00	7.01
47	2-Chl oronaphthal ene	50.000	50.225	-0.5	0	0.00	7.03
48	2-Ni troani line	50.000	47.962	4.1	0	0.00	7.20
49	Acenaphthyl ene	50.000	50.112	-0.2	0	0.00	7.60
50	Di methyl phthal ate	50.000	52.069	-4.1	0	-0.01	7.48
51	2, 6-Di ni trotol uene	50.000	49.785	0.4	0	0.00	7.56
52 C	Acenaphthene	50.000	50.520	-1.0	0	0.00	7.86
53	3-Ni troani line	50.000	26.575	46.9#	0	0.00	7.80
		-----	-----	-----			
54 P	2, 4-Di ni trophenol	100.000	94.826	5.2	0	0.00	7.98
		-----	-----	-----			
55	Di benzofuran	50.000	48.039	3.9	0	0.00	8.13
56	2, 4-Di ni trotol uene	50.000	51.372	-2.7	0	0.00	8.18
57 P	4-Ni trophenol	100.000	100.715	-0.7	0	0.00	8.18
58	2, 3, 4, 6-Tetrachl orophenol	50.000	47.411	5.2	0	0.00	8.36

5.6
5

Initial Calibration Verification

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
Lab FileID: F010295.D

86 I	Perylene-d12	40.000	40.000	0.0	87	0.00	17.68
87 C	Di-n-octyl phthalate	50.000	56.471	-12.9	0	0.00	16.73
88	Benzo[b]fluoranthene	50.000	51.057	-2.1	0	0.00	17.07

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF589-CC580
Lab FileID: F010525.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072705\F010525.D Vial : 2
Acq On : 27 Jul 2005 9:33 am Operator: nareshj
Sample : cc580-75 Inst : MS-F
Misc : op13884, sf589, 30.8, , , 1, 1, soil Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Tue Jul 26 14:28:24 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(mi n)	R. T.
1 I 1,4-Di chl orobenzene-d4	1.000	1.000	0.0	79	0.00	4.50

5.6
5

Continuing Calibration Summary

Job Number: F33504
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF589-CC580
 Lab FileID: F010525.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.01	7.69
		----- Amount		Cal c.	%Dri ft		-----	
42	P	Hexachlorocyclopentadiene	75.000	70.053	6.6	83	0.00	6.49
		----- AvgRF		CCRF	%Dev		-----	

Continuing Calibration Summary

Job Number: F33504
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF589-CC580
Lab FileID: F010525.D

86 I	Perylene-d12	1.000	1.000	0.0	105	0.00	17.53
87 C	Di-n-octyl phthalate	1.809	2.113	-16.8	113	0.00	16.61