K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 10/27/00

TO: Ms. Pam Bauer
IT CORPORATION
4005 Port Chicago Hwy
Concord, CA 94520

Phone: (925) 288-9898
Fax: (925) 288-0888

ACCT: 9817
PROJ: 773247

FROM: Richard A. Kagel, Ph.D. RAK by ck 10/27/00
Laboratory Director

SUBJECT: YOUR PROJECT 773247 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	KPI LAB #
00101819-PUF-2027	AIR	10/18/00	28749
00101819-PUF-2028	AIR	10/18/00	28750
00101819-PUF-2029	AIR	10/18/00	28751
00101819-PUF-2030	AIR	10/18/00	28752
00101819-PUF-2031	AIR	10/18/00	28753
00101819-PUF-2032	AIR	10/18/00	28754
00101819-PUF-2033	AIR	10/18/00	28755

The above listed sample group was received on 10/19/00 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

CC: Mr. Cliff Foreman, JADA/IT Hunters Point FAX: 415-671-2809

ALTA

October 26, 2000

Alta Batch I.D.: 9271

Ms. Carla Kagel
K Prime, Inc.
3621 Westwind Blvd.
Santa Rosa, CA 95403

Dear Ms. Kagel,

Enclosed are the results for the seven PUF samples received at Alta Analytical Laboratory on October 21, 2000. This work was authorized as your Project #9817. These samples were extracted and analyzed using EPA Method TO-9 for tetra to octa chlorinated dioxins/dibenzofurans. A **RUSH** turnaround time was requested for this work.

These results are being reported in pg/m^3 based on volumes specified on the chain of custody.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix. The Appendix contains a copy of the chain-of-custody, a list of data qualifiers and abbreviations, our current certifications, Excel™ diskette deliverables, and copies of the raw data.

Alta Analytical Laboratory remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact me. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Robert S. Mitzel
Vice-President of HRMS Operations

Alta Analytical Laboratory Inc.
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762
FAX (916) 933-0940

ALTA

Sample Inventory Report: MM5 Sampling Train

Project No.: 9271 **Project Name:** 9817

Date Rec.: 10/21/2000

Lab. Sample ID	Client Sample ID	Component ID
001	28749-2027	PUF
002	28749-2028	PUF
003	28749-2029	PUF
004	28749-2030	PUF
005	28749-2031	PUF
006	28749-2032	PUF
007	28749-2033	PUF

ALTA

SECTION II.

ALTA

PCDD & PCDF
EPA METHOD TO-9

Method Blank
Matrix: Train
TEQ (Min-Max): 0 - 0.00969

Date Extracted: 10/23/00
Sample Amount: Sample

Lab ID: MB001
QC Set: 1046
Units: pg/m3

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00173		1.30	
1,2,3,7,8-PeCDD	ND	0.00226		3.01	
1,2,3,4,7,8-HxCDD	ND	0.00693		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00529		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00544		2.74	
1,2,3,4,6,7,8-HpCDD	ND	0.00364		3.99	
OCDD	ND	0.0166		33.5	
2,3,7,8-TCDF	ND	0.00651		0.991	
1,2,3,7,8-PeCDF	ND	0.00591		2.10	
2,3,4,7,8-PeCDF	ND	0.00531		1.91	
1,2,3,4,7,8-HxCDF	ND	0.00361		3.02	
1,2,3,6,7,8-HxCDF	ND	0.00242		1.53	
2,3,4,6,7,8-HxCDF	ND	0.00297		3.05	
1,2,3,7,8,9-HxCDF	ND	0.00372		4.17	
1,2,3,4,6,7,8-HpCDF	ND	0.00511		3.96	
1,2,3,4,7,8,9-HpCDF	ND	0.00502		1.06	
OCDF	ND	0.0274		10.1	
Total TCDD	ND	0.00173			
Total PeCDD	ND	0.00226			
Total HxCDD	ND	0.00580			
Total HpCDD	ND	0.00364			
Total TCDF	ND	0.00651			
Total PeCDF	ND	0.00559			
Total HxCDF	ND	0.00309			
Total HpCDF	ND	0.00584			

ALTA

PCDD & PCDF
EPA METHOD TO-9

Method Blank **QC Set:** 1.046
Lab ID: MB001

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	103	40 - 130	
13C-1,2,3,7,8-PeCDD	96.2	40 - 130	
13C-1,2,3,6,7,8-HxCDD	85.7	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	118	25 - 130	
13C-OCDD	109	25 - 130	
13C-2,3,7,8-TCDF	87.5	40 - 130	
13C-1,2,3,7,8-PeCDF	91.1	40 - 130	
13C-1,2,3,6,7,8-HxCDF	64.1	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	95.6	25 - 130	
13C-OCDF	114	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	NA	70 - 130	
13C-2,3,4,7,8-PeCDF	NA	70 - 130	
13C-1,2,3,4,7,8-HxCDD	NA	70 - 130	
13C-1,2,3,4,7,8-HxCDF	NA	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	NA	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	103	70 - 130	

Analysis Dates
DB-5: 10/24/00

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower Control Limit - Upper Control Limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF

EPA METHOD TO-9

OPR RESULTS
Lab ID: 9271-1046-OPR
Matrix: PUF

Date Received: NA
Date Extracted: 10/23/00
Sample Amount: Sample

ICAL ID: I428
QC Lot: 1046
Units: ng/mL

Compound	Spike Amount	Conc. Found	Limit
2,3,7,8-TCDD	2.0	2.12	1.75-3.25
1,2,3,7,8-PeCDD	10.0	11.3	8.75-16.25
1,2,3,4,7,8-HxCDD	10.0	14.1	8.75-16.25
1,2,3,6,7,8-HxCDD	10.0	11.4	8.75-16.25
1,2,3,7,8,9-HxCDD	10.0	11.4	8.75-16.25
1,2,3,4,6,7,8-HpCDD	10.0	11.3	8.75-16.25
OCDD	20.0	21.9	17.5-32.5
2,3,7,8-TCDF	2.0	2.18	1.75-3.25
1,2,3,7,8-PeCDF	10.0	11.1	8.75-16.25
2,3,4,7,8-PeCDF	10.0	10.4	8.75-16.25
1,2,3,4,7,8-HxCDF	10.0	15.2	8.75-16.25
1,2,3,6,7,8-HxCDF	10.0	12.4	8.75-16.25
2,3,4,6,7,8-HxCDF	10.0	12.8	8.75-16.25
1,2,3,7,8,9-HxCDF	10.0	15.7	8.75-16.25
1,2,3,4,6,7,8-HpCDF	10.0	12.2	8.75-16.25
1,2,3,4,7,8,9-HpCDF	10.0	16.0	8.75-16.25
OCDF	20.0	22.5	17.5-32.5

Analyst: MS

Reviewer: J

ALTA

PCDD & PCDF
EPA METHOD TO-9

OPR RESULTS
Lab ID: 9271-1046-OPR

Isotopic Recovery Results

Internal Standard:	Spike Amount	LCS %R	Limit
^{13}C-2,3,7,8-TCDD	4000	97.8	40-130
^{13}C-1,2,3,7,8-PeCDD	4000	96.7	40-130
^{13}C-1,2,3,6,7,8-HxCDD	4000	90.2	40-130
^{13}C-1,2,3,4,6,7,8-HpCDD	4000	118	25-130
^{13}C-OCDD	4000	103	25-130
^{13}C-2,3,7,8-TCDF	4000	89.7	40-130
^{13}C-1,2,3,7,8-PeCDF	4000	93.4	40-130
^{13}C-1,2,3,6,7,8-HxCDF	4000	70.5	40-130
^{13}C-1,2,3,4,6,7,8-HpCDF	4000	96.4	25-130
^{13}C-OCDF	4000	116	25-130

Dates Analyzed:

DB-5: 10/24/00

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2027			Lab ID:	9271-001
Project:	9817			QC Set:	1.046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0149 - 0.0363

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.0123		1.30	
1,2,3,7,8-PeCDD	ND	0.0128		3.01	
1,2,3,4,7,8-HxCDD	ND	0.00888		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00677		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00696		2.74	
1,2,3,4,6,7,8-HpCDD	0.0320			3.99	A
OCDD	0.110			33.5	A
2,3,7,8-TCDF	0.00631			0.991	A
1,2,3,7,8-PeCDF	ND	0.00950		2.10	
2,3,4,7,8-PeCDF	0.0126			1.91	A
1,2,3,4,7,8-HxCDF	0.0247			3.02	A
1,2,3,6,7,8-HxCDF	0.0129			1.53	A
2,3,4,6,7,8-HxCDF	0.0182			3.05	A
1,2,3,7,8,9-HxCDF	0.0102			4.17	A
1,2,3,4,6,7,8-HpCDF	0.0695			3.96	A
1,2,3,4,7,8,9-HpCDF	0.0155			1.06	A
OCDF	0.0587			10.1	A

Total TCDD	ND	0.0123
Total PeCDD	ND	0.0128
Total HxCDD	0.0202	
Total HpCDD	0.0593	
Total TCDF	0.243	
Total PeCDF	0.181	
Total HxCDF	0.186	
Total HpCDF	0.132	

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2027
Lab ID: 9271-001

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	86.1	40 - 130	
13C-1,2,3,7,8-PeCDD	87.9	40 - 130	
13C-1,2,3,6,7,8-HxCDD	78.4	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	106	25 - 130	
13C-OCDD	114	25 - 130	
13C-2,3,7,8-TCDF	79.7	40 - 130	
13C-1,2,3,7,8-PeCDF	70.7	40 - 130	
13C-1,2,3,6,7,8-HxCDF	59.3	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	84.5	25 - 130	
13C-OCDF	102	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	96.4	70 - 130	
13C-2,3,4,7,8-PeCDF	123	70 - 130	
13C-1,2,3,4,7,8-HxCDD	109	70 - 130	
13C-1,2,3,4,7,8-HxCDF	116	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	124	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	90.6	70 - 130	

Analysis Dates

DB-5: 10/25/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2028			Lab ID:	9271-002
Project:	9817			QC Set:	1.046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0122 - 0.0319

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00464		1.30	
1,2,3,7,8-PeCDD	ND	0.0142		3.01	
1,2,3,4,7,8-HxCDD	ND	0.0235		1.93	
1,2,3,6,7,8-HxCDD	ND	0.0179		2.47	
1,2,3,7,8,9-HxCDD	ND	0.0184		2.74	
1,2,3,4,6,7,8-HpCDD	0.0334			3.99	A
OCDD	0.129			33.5	A
2,3,7,8-TCDF	ND	0.00657		0.991	
1,2,3,7,8-PeCDF	ND	0.00864		2.10	
2,3,4,7,8-PeCDF	0.00968			1.91	A
1,2,3,4,7,8-HxCDF	0.0260			3.02	A
1,2,3,6,7,8-HxCDF	0.0152			1.53	A
2,3,4,6,7,8-HxCDF	0.0189			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00883		4.17	
1,2,3,4,6,7,8-HpCDF	0.0623			3.96	A
1,2,3,4,7,8,9-HpCDF	0.0187			1.06	A
OCDF	0.0574			10.1	A

Total TCDD	ND	0.00464
Total PeCDD	ND	0.0142
Total HxCDD	ND	0.0305
Total HpCDD	0.0732	
Total TCDF	0.209	
Total PeCDF	0.104	
Total HxCDF	0.159	
Total HpCDF	0.135	

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2028
Lab ID: 9271-002

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	92.4	40 - 130	
13C-1,2,3,7,8-PeCDD	97.4	40 - 130	
13C-1,2,3,6,7,8-HxCDD	87.2	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	94.5	25 - 130	
13C-OCDD	110	25 - 130	
13C-2,3,7,8-TCDF	88.9	40 - 130	
13C-1,2,3,7,8-PeCDF	92.1	40 - 130	
13C-1,2,3,6,7,8-HxCDF	68.9	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	93.9	25 - 130	
13C-OCDF	118	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.1	70 - 130	
13C-2,3,4,7,8-PeCDF	99.0	70 - 130	
13C-1,2,3,4,7,8-HxCDD	107	70 - 130	
13C-1,2,3,4,7,8-HxCDF	110	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	123	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	103	70 - 130	

Analysis Dates

DB-5: 10/24/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2029			Lab ID:	9271-003
Project:	9817			OC Set:	1046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0164 - 0.0299

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND		0.0178	1.30	
1,2,3,7,8-PeCDD	ND	0.00986		3.01	
1,2,3,4,7,8-HxCDD	ND	0.0207		1.93	
1,2,3,6,7,8-HxCDD	ND	0.0158		2.47	
1,2,3,7,8,9-HxCDD	ND	0.0162		2.74	
1,2,3,4,6,7,8-HpCDD	0.0683			3.99	A
OCDD	0.626			33.5	
2,3,7,8-TCDF	ND	0.0153		0.991	
1,2,3,7,8-PeCDF	ND	0.00893		2.10	
2,3,4,7,8-PeCDF	0.0138			1.91	A
1,2,3,4,7,8-HxCDF	0.0322			3.02	A
1,2,3,6,7,8-HxCDF	0.0164			1.53	A
2,3,4,6,7,8-HxCDF	0.0214			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.0134		4.17	
1,2,3,4,6,7,8-HpCDF	0.0886			3.96	
1,2,3,4,7,8,9-HpCDF	0.0189			1.06	A
OCDF	0.0931			10.1	A
Total TCDD	ND		0.0436		
Total PeCDD	ND	0.00986			
Total HxCDD	0.0560				
Total HpCDD	0.142				
Total TCDF	0.379				
Total PeCDF	0.144				
Total HxCDF	0.207				
Total HpCDF	0.184				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2029
Lab ID: 9271-003

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	92.3	40 - 130	
13C-1,2,3,7,8-PeCDD	98.7	40 - 130	
13C-1,2,3,6,7,8-HxCDD	85.4	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	113	25 - 130	
13C-OCDD	99.0	25 - 130	
13C-2,3,7,8-TCDF	88.7	40 - 130	
13C-1,2,3,7,8-PeCDF	91.6	40 - 130	
13C-1,2,3,6,7,8-HxCDF	63.5	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	89.3	25 - 130	
13C-OCDF	112	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	95.8	70 - 130	
13C-2,3,4,7,8-PeCDF	102	70 - 130	
13C-1,2,3,4,7,8-HxCDD	115	70 - 130	
13C-1,2,3,4,7,8-HxCDF	116	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	121	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	95.8	70 - 130	

Analysis Dates

DB-5: 10/24/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2030			Lab ID:	9271-004
Project:	9817			QC Set:	1.046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0459 - 0.0649

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00679		1.30	
1,2,3,7,8-PeCDD	ND	0.0244		3.01	
1,2,3,4,7,8-HxCDD	0.00823			1.93	A
1,2,3,6,7,8-HxCDD	0.0140			2.47	A
1,2,3,7,8,9-HxCDD	0.0116			2.74	A
1,2,3,4,6,7,8-HpCDD	0.0726			3.99	A
OCDD	0.280			33.5	
2,3,7,8-TCDF	0.0134			0.991	A
1,2,3,7,8-PeCDF	0.0180			2.10	A
2,3,4,7,8-PeCDF	0.0316			1.91	A
1,2,3,4,7,8-HxCDF	0.0783			3.02	A
1,2,3,6,7,8-HxCDF	0.0412			1.53	A
2,3,4,6,7,8-HxCDF	0.0562			3.05	A
1,2,3,7,8,9-HxCDF	0.0301			4.17	A
1,2,3,4,6,7,8-HpCDF	0.220			3.96	
1,2,3,4,7,8,9-HpCDF	0.0493			1.06	A
OCDF	0.180			10.1	
Total TCDD	ND	0.00679			
Total PeCDD	0.0158		0.0277		
Total HxCDD	0.125				
Total HpCDD	0.140				
Total TCDF	0.712				
Total PeCDF	0.461				
Total HxCDF	0.575				
Total HpCDF	0.402		0.403		

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2030
Lab ID: 9271-004

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	95.4	40 - 130	
13C-1,2,3,7,8-PeCDD	98.9	40 - 130	
13C-1,2,3,6,7,8-HxCDD	90.1	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	120	25 - 130	
13C-OCDD	108	25 - 130	
13C-2,3,7,8-TCDF	95.0	40 - 130	
13C-1,2,3,7,8-PeCDF	98.2	40 - 130	
13C-1,2,3,6,7,8-HxCDF	68.0	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	94.2	25 - 130	
13C-OCDF	116	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.2	70 - 130	
13C-2,3,4,7,8-PeCDF	99.6	70 - 130	
13C-1,2,3,4,7,8-HxCDD	110	70 - 130	
13C-1,2,3,4,7,8-HxCDF	116	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	122	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	99.1	70 - 130	

Analysis Dates

DB-5: 10/24/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2031			Lab ID:	9271-005
Project:	9817			OC Set:	1.046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0277 - 0.0491

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.0121		1.30	
1,2,3,7,8-PeCDD	ND	0.0132		3.01	
1,2,3,4,7,8-HxCDD	ND	0.0107		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00819		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00842		2.74	
1,2,3,4,6,7,8-HpCDD	0.0598			3.99	A
OCDD	0.292			33.5	A
2,3,7,8-TCDF	0.00876			0.991	A
1,2,3,7,8-PeCDF	0.0113			2.10	A
2,3,4,7,8-PeCDF	0.0217			1.91	A
1,2,3,4,7,8-HxCDF	0.0497			3.02	A
1,2,3,6,7,8-HxCDF	0.0271			1.53	A
2,3,4,6,7,8-HxCDF	0.0314			3.05	A
1,2,3,7,8,9-HxCDF	0.0184			4.17	A
1,2,3,4,6,7,8-HpCDF	0.137			3.96	A
1,2,3,4,7,8,9-HpCDF	0.0317			1.06	A
OCDF	0.110			10.1	A

Total TCDD	ND	0.0121
Total PeCDD	ND	0.0132
Total HxCDD	0.0558	
Total HpCDD	0.122	
Total TCDF	0.450	
Total PeCDF	0.304	
Total HxCDF	0.346	
Total HpCDF	0.255	

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2031
Lab ID: 9271-005

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	94.8	40 - 130	
13C-1,2,3,7,8-PeCDD	88.5	40 - 130	
13C-1,2,3,6,7,8-HxCDD	87.9	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	117	25 - 130	
13C-OCDD	104	25 - 130	
13C-2,3,7,8-TCDF	88.6	40 - 130	
13C-1,2,3,7,8-PeCDF	80.5	40 - 130	
13C-1,2,3,6,7,8-HxCDF	67.9	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	91.3	25 - 130	
13C-OCDF	115	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	93.7	70 - 130	
13C-2,3,4,7,8-PeCDF	101	70 - 130	
13C-1,2,3,4,7,8-HxCDD	107	70 - 130	
13C-1,2,3,4,7,8-HxCDF	115	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	123	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	101	70 - 130	

Analysis Dates

DB-5: 10/24/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	28749-2032			Lab ID:	9271-006
Project:	9817			OC Set:	1.046
Matrix:	PUF	Date Received:	10/21/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	10/23/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.00770 - 0.0343

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.0141		1.30	
1,2,3,7,8-PeCDD	ND	0.0124		3.01	
1,2,3,4,7,8-HxCDD	ND	0.00714		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00545		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00560		2.74	
1,2,3,4,6,7,8-HpCDD	0.0379			3.99	A
OCDD	0.237			33.5	A
2,3,7,8-TCDF	0.00986			0.991	A
1,2,3,7,8-PeCDF	ND	0.00391		2.10	
2,3,4,7,8-PeCDF	ND	0.00855		1.91	
1,2,3,4,7,8-HxCDF	0.0231			3.02	A
1,2,3,6,7,8-HxCDF	0.0115			1.53	A
2,3,4,6,7,8-HxCDF	0.0113			3.05	A
1,2,3,7,8,9-HxCDF	0.00747			4.17	A
1,2,3,4,6,7,8-HpCDF	0.0543			3.96	A
1,2,3,4,7,8,9-HpCDF	0.0151			1.06	A
OCDF	0.0638			10.1	A

Total TCDD	ND	0.0141
Total PeCDD	ND	0.0124
Total HxCDD	ND	0.0125
Total HpCDD	0.0733	
Total TCDF	0.210	
Total PeCDF	0.0790	
Total HxCDF	0.133	
Total HpCDF	0.110	

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2032
Lab ID: 9271-006

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	97.0	40 - 130	
13C-1,2,3,7,8-PeCDD	95.2	40 - 130	
13C-1,2,3,6,7,8-HxCDD	88.3	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	119	25 - 130	
13C-OCDD	106	25 - 130	
13C-2,3,7,8-TCDF	86.9	40 - 130	
13C-1,2,3,7,8-PeCDF	89.0	40 - 130	
13C-1,2,3,6,7,8-HxCDF	67.2	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	96.1	25 - 130	
13C-OCDF	108	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	95.9	70 - 130	
13C-2,3,4,7,8-PeCDF	102	70 - 130	
13C-1,2,3,4,7,8-HxCDD	105	70 - 130	
13C-1,2,3,4,7,8-HxCDF	115	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	116	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	101	70 - 130	

Analysis Dates

DB-5: 10/25/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2033
Project: 9817
Matrix: PUF
Sample Amount: 1 Train
[a] TEQ (Min-Max): 0 - 0.0205

Date Received: 10/21/00
Date Extracted: 10/23/00

Lab ID: 9271-007
QC Set: 1,046
%Solids: NA
Units: pg/m3

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.0116		1.30	
1,2,3,7,8-PeCDD	ND	0.00551		3.01	
1,2,3,4,7,8-HxCDD	ND	0.00630		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00527		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00494		2.74	
1,2,3,4,6,7,8-HpCDD	ND	0.00503		3.99	
OCDD	ND	0.0168		33.5	
2,3,7,8-TCDF	ND	0.00410		0.991	
1,2,3,7,8-PeCDF	ND	0.00488		2.10	
2,3,4,7,8-PeCDF	ND	0.00439		1.91	
1,2,3,4,7,8-HxCDF	ND	0.00428		3.02	
1,2,3,6,7,8-HxCDF	ND	0.00287		1.53	
2,3,4,6,7,8-HxCDF	ND	0.00351		3.05	
1,2,3,7,8,9-HxCDF	ND	0.00440		4.17	
1,2,3,4,6,7,8-HpCDF	ND	0.00222		3.96	
1,2,3,4,7,8,9-HpCDF	ND	0.00296		1.06	
OCDF	ND	0.0110		10.1	
Total TCDD	ND	0.0116			
Total PeCDD	ND	0.00551			
Total HxCDD	ND	0.00527			
Total HpCDD	ND	0.00503			
Total TCDF	ND	0.00410			
Total PeCDF	ND	0.00462			
Total HxCDF	ND	0.00366			
Total HpCDF	ND	0.00414			

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 28749-2033
Lab ID: 9271-007

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	95.2	40 - 130	
13C-1,2,3,7,8-PeCDD	100	40 - 130	
13C-1,2,3,6,7,8-HxCDD	90.5	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	123	25 - 130	
13C-OCDD	109	25 - 130	
13C-2,3,7,8-TCDF	89.4	40 - 130	
13C-1,2,3,7,8-PeCDF	92.6	40 - 130	
13C-1,2,3,6,7,8-HxCDF	65.8	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	97.9	25 - 130	
13C-OCDF	122	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	95.8	70 - 130	
13C-2,3,4,7,8-PeCDF	101	70 - 130	
13C-1,2,3,4,7,8-HxCDD	103	70 - 130	
13C-1,2,3,4,7,8-HxCDF	115	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	120	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	99.5	70 - 130	

Analysis Dates

DB-5: 10/25/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

Analyst: MS

Reviewer:

ALTA

APPENDIX

ALTA

DATA QUALIFIERS & ABBREVIATIONS

A	The amount detected is below the Method Calibration Limit.
B	This compound was also detected in the blank.
C	The amount detected is less than five times the Method Quantitation Limit.
D	The amount reported is the maximum possible concentration.
E	The detection limit was raised above the Method Quantitation Limit due to chemical interference's.
F	This result has been confirmed on a DB-225 column.
G	This result has been confirmed on a SP-2331 column.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical Interference
Conc.	Concentration
D.L.	Detection Limit
NA	Not applicable
S/N	Signal-to-noise
*	See Cover Letter
ND	Not Detected
MPC	Maximum Possible Concentration

CURRENT CERTIFICATIONS

ALTA

Bureau of Reclamation-Mid-Pacific Region---(MP-470, Res-1.10)

Commonwealth of Kentucky---(Certificate No. 90063)

Commonwealth of Virginia---(Certificate No. 00013)

State of Alaska, Department of Environmental Conservation---(Certificate No. OS-00197)

State of Arkansas, Department of Health---(Approval granted through CA certification)

State of Arkansas, Department of Environmental Quality---

State of California---(Certificate No. 1640)

State of Connecticut---(Certificate No. PH-0182)

State of Florida---(Certificate No. 87456)

State of Louisiana---(Certificate No. 98-33)

State of Mississippi---(Approval granted through CA certification)

State of Nevada---(Certificate No. CA413)

State of New York, Department of Health---(Certificate No. 11411)

State of North Carolina---(Certificate No. 06700)

State of North Dakota, Department of Health---(Certificate No. R-078)

State of Oregon---

State of Pennsylvania---(Certificate No. 68-490)

State of South Carolina---(Certificate No. 87002001)

State of Texas — (Certificate No. TX247-2000A)

State of Tennessee---(Certificate No. 02996)

State of Utah---(Certificate No. E-201)

State of Washington, Department of Ecology---(Certification No. C091)

State of Wisconsin---(Certificate No. 998036160)

State of Wyoming---(Ref: 8ES-LB)

U.S. Army Corps of Engineers

U.S. 5 EPA Region

May 2000

To: Alta

K PRIME, INC.

CHAIN OF CUSTODY RECORD

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd., Santa Rosa, CA 95403 PHONE: (707) 527-7574 FAX: (707) 527-7879

Client/Project ID: K PRIME 19817

Address/Phone:

Project Location:

Client Project No.:

KPI Project No.:

Contact: C Kagel

Sampler (Signature):

ANALYSES: HRGC/HRMS - TO-9 Dioxins/Furans

Sample Identification No.	Date	Sample ~~Time~~ Volume (m³)	Lab Sample No.	Type of Sample	No. of Containers	HRGC/HRMS - TO-9 Dioxins/Furans						Expected Turnaround Time	Remarks
28749 - 2027	10/18/00	324.86				✓						5 day	Please report
28750 - 2028		325.27				✓							pg/m³ using
28751 - 2029		309.23				✓							volumes
28752 - 2030		285.17				✓							provided.
28753 - 2031		324.92				✓							
28754 - 2032		315.13				✓							
28755 - 2033		314.10											

Relinquished by: (Signature) C Kagel to FedEx	Received by: (Signature) R. Fitt ALTA	Date 10/21/00	Time 1100
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Disposal Method			
Disposed by: (Signature)	Date	Time	

White Copy : Accompanies Samples
Yellow Copy : Sampler

STANDARD OPERATING PROCEDURE

Attachment 10.B.1

SAMPLE LOG-IN CHECKLIST

ALTA Project No.: 9271 Client/Protocol No. N/A

1. Date Samples Arrived: 10/21/00 Initials: [illegible] Location: WR-1			
2. Time / Date logged in: 10-23-00 0700 Initials: [illegible] Location: WR-1			
3. Samples Arrived By: (circle) FedEx UPS World Courier Other:			
4. Shipping Preservation: (circle) Ice / Blue Ice / Dry Ice / None Temp °C 7			
	YES	NO	NA
5. Shipping Container(s) Intact"? If not, describe condition in comment section.	X		
6. Shipping Container(s) Custody Seals Present?	X		
Intact? If not intact, describe condition in comment section.	X		
7. Shipping Documentation Present? (circle) Shipping Label Airbill Tracking Number 820808899379	X		
8. Sample Custody Seal(s) Present? No. of Seals____ or Seal No.____		X	
Intact? If not intact, describe condition in comment section.			X
9. Sample Container Intact? If no, indicate sample condition in comment section.	X		
10. Chain of Custody (COC) or other Sample Documentation Present?	X		
11. COC/Documentation Acceptable? If no, complete COC Anomaly Form.	X		
12. Shipping Container (circle): ALTA Client Retain or Return or Disposed			
13. Container(s) and/or Bottle(s) Requested?		X	
14. Sample Control Check In/Out Log Completed? (HRMS Only)	X		
15. Drinking Water Sample? (HRMS Only) If yes, Acceptable Preservation? Y or N			X
Preservation Info From? (circle) COC or Sample Container or None Noted			
16. Number of Samples Received: N/A			

Name: _____ Date Samples Reconciled: _____
(Signature Required for LCMS Only)

Comments:

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 2000-101819HR

Project Name: HPS Air Monitoring
Project Number: 773247
SampleTeam/Members: A. Cortez, E. Diaz
Profit Center No.: 3701110
Project Manager: Jim Robbins
Purchase Order No.: 85554
Required Report Date: See PAM

Samples Shipment Date: 10/19/00
Lab Destination: K-Prime Analytical
Lab Contact: Carla Kagel
Project Contact/Phone: Cliff Foreman
Carrier/Waybill No.: Courier

Bill to: IT Corporation, 4005 Port Chicago Highway, Concord, CA. 94520

Report to: IT Corporation, 4005 Port Chicago Highway, Concord, CA. 94520, Attn: Pam Bauer

ONE CONTAINER PER LINE

Sample Number	Sampler	Location	Date Collected	Sample Volume (Cubic meters)	Container Type	Preservative	Requested Testing Program	Condition on Receipt	KPI # Disposal Record No.
✓ 00101819-PUF-2027	AC, ED	PARCEL E, STATION A	10/18/00	324.86	Jar	ICE	TO-9		28749
✓ 00101819-PUF-2028	AC, ED	PARCEL E, STATION B	10/18/00	325.27	"	"	TO-9		28750
✓ 00101819-PUF-2029	AC, ED	PARCEL E, STATION C	10/18/00	309.23	"	"	TO-9		28751
✓ 00101819-PUF-2030	AC, ED	PARCEL E, STATION D	10/18/00	285.17	"	"	TO-9		28752
✓ 00101819-PUF-2031	AC, ED	PARCEL E, STATION E	10/18/00	324.92	"	"	TO-9		28753
✓ 00101819-PUF-2032	AC, ED	PARCEL E, STATION F	10/18/00	315.13	"	"	TO-9		28754
NOT COLLECTED		PARCEL E, STATION G	10/18/00	0.00	"	"	TO-9		
✓ 00101819-PUF-2033	AC, ED	PARCEL E, PUF-BLANK	10/18/00	NA	"	"	TO-9		28755

Special Instructions: Analyze for high resolution dioxins and furans per conversations with IT.

Possible Hazard ID: none | Sample Disposal: By Lab | Turnaround Time Required: 5 day turnaroun | QC Level: See PAM

1. Relinquished by (Signature/Affiliation)	Date: 10/19/00 Time: 1324	1. Received by (Signature/Affiliation)	Date: 10 19 00 Time: 1 20
2. Relinquished by (Signature/Affiliation)	Date: 10 19 00 Time: 4:25	2. Received by (Signature/Affiliation)	Date: 10-19-00 Time: 4:25
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: Fax Preliminary results to Brett Womack (1-415-671-2809)

101819 XLS COC
H Bowles, Excel 5/7-Win 95
TSP and PM-10 Volume Calcs

Formulas Verified 10/16/97

10/19/00 12:40 PM

FAX NO. 707 526 1818 P. 29