



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

625143

Required Client Information: Section A

Company: **ATC Associates Inc**
 Address: **104 E 25th Street**
10th floor
 Phone: **212.353.8280** Fax: **212.353.8306**

Required Client Information: Section B

Report To: **James Cohn**
 Copy To: _____
 Invoice To: _____
 P.O.: _____
 Project Name: **19125-0297**
 Project Number: **PS 89M**

Page: 1 of 1

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____
 Project Manager: _____
 Project #: _____
 Profile #: _____
 Requested Analysis: _____

ITEM #	Section D Required Client Information:										MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm:aa	# Containers	Preservatives								Remarks / Lab ID	
	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE														Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		
1	A	T	C	O	2	-	9	-	X		WP	01/25/02	1 M ²										✓	1st floor hallway north
2	A	T	C	O	2	-	9	-	X				1 M ²										✓	1st floor hallway south
3	A	T	C	O	2	-	9	-	X				1 M ²										✓	1st floor hallway south
4	A	T	C	O	2	-	9	-	X				Blank										✓	Blank
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Feeder		1/28/02								

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **WAGDI**
 SIGNATURE of SAMPLER: **[Signature]** DATE Signed: (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev 0601

CITY_21MC100_002880338

NYC-WTC_000219421

FEB-19-02 12:52

FROM-PACE ANALYTICAL

612-607-6444

T-547 P. 02/05 F-876

1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Pace Analytical™****Method 8290 Analysis Results**

Client - ATC

Client's Sample ID	ATC-0125-89M-DX1		
Lab Sample ID	103292397		
Filename	U20213A_02		
Injected By	CVS		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/25/2002
ICAL Date	01/25/2002	Received	01/29/2002
CCal Filename(s)	U20212B_15 & U20213A_12	Extracted	02/08/2002
Method Blank ID	BLANK-1457	Analyzed	02/13/2002 13:29

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0035 A	2,3,7,8-TCDF-13C	2.00	62
Total TCDF	ND	----	0.0020	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	63
2,3,7,8-TCDD	ND	----	0.0095 A	2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	0.024	----	0.0020	1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	----	0.0100	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	0.0100	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	114
1,2,3,7,8-PeCDD	ND	----	0.0100	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	0.011	----	0.0100 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	99
				1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	ND	----	0.0100	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	ND	----	0.0100	OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	ND	----	0.0100			
1,2,3,7,8,9-HxCDF	ND	----	0.0100	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.0100	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	----	0.0100			
1,2,3,7,8,9-HxCDD	ND	----	0.0100			
Total HxCDD	0.014	----	0.0100 J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.0100	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0100	Equivalence: 0.00024 ng/m2		
Total HpCDF	ND	----	0.0100	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.016	----	0.0100 J			
Total HpCDD	0.016	----	0.0100 J			
OCDF	ND	----	0.0200			
OCDD	0.087	----	0.0200 J			

1st floor hallway - north

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....02-1053530

REPORT OF LABORATORY ANALYSIS

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CITY_21MC100_002880339

FEB-19-02 12:52

FROM-PACE ANALYTICAL

612-607-6444

T-547 P. 03/05 F-876

1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Pace Analytical**TM**Method 8290 Analysis Results**

Client - ATC

Client's Sample ID ATC-0125-89M-DX2
 Lab Sample ID 103292405
 Filename U20212B_12
 Injected By BAL
 Total Amount Extracted 1 m2
 % Moisture NA
 Dry Weight Extracted NA
 ICAL Date 01/25/2002
 CCal Filename(s) U20212A_11 & U20212B_15
 Method Blank ID BLANK-1457

Matrix WIPE
 Dilution NA
 Collected 01/25/2002
 Received 01/29/2002
 Extracted 02/08/2002
 Analyzed 02/13/2002 08:40

DRAFT

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0050 A	2,3,7,8-TCDF-13C	2.00	58
Total TCDF	ND	----	0.0020	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	63
2,3,7,8-TCDD	ND	----	0.0062 A	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	0.011	----	0.0020	1,2,3,7,8-PeCDD-13C	2.00	74
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	----	0.0100	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	----	0.0100	2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	----	0.0100	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	----	0.0100	1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	----	0.0100	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	----	0.0100	OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	----	0.0100			
1,2,3,7,8,9-HxCDF	ND	----	0.0100	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.0100	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	----	0.0100			
1,2,3,7,8,9-HxCDD	ND	----	0.0100			
Total HxCDD	0.011	----	0.0100 J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.0100	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0100	Equivalence: 0.00014 ng/m2		
Total HpCDF	ND	----	0.0100	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.014	----	0.0100 J			
Total HpCDD	0.028	----	0.0100 J			
OCDF	ND	----	0.0200			
OCDD	----	0.055	0.0200 I			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....02-1053530

REPORT OF LABORATORY ANALYSIS

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CITY_21MC100_002880340

FEB-19-02 12:53

FROM-PACE ANALYTICAL

612-607-6444

T-547 P.04/05 F-876

1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Pace Analytical™****Method 8290 Analysis Results**

Client - ATC

DRAFT

Client's Sample ID	ATC-0125-89M-DX3		
Lab Sample ID	103292413		
Filename	U20212B_13		
Injected By	BAL		
Total Amount Extracted	1 m2	Matrix	WIPE
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	01/25/2002
ICAL Date	01/25/2002	Received	01/29/2002
CCal Filename(s)	U20212A_11 & U20212B_15	Extracted	02/08/2002
Method Blank ID	BLANK-1457	Analyzed	02/13/2002 09:30

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0065	A	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	----	0.0020		2,3,7,8-TCDD-13C	2.00	43
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	----	0.0120	A	2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	0.096	----	0.0020		1,2,3,7,8-PeCDD-13C	2.00	79
					1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	ND	----	0.0100		1,2,3,6,7,8-HxCDF-13C	2.00	60
2,3,4,7,8-PeCDF	ND	----	0.0100		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	----	0.0100		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	100
1,2,3,7,8-PeCDD	ND	----	0.0100		1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	0.013	----	0.0100	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	----	0.0100		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	----	0.0100		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	----	0.0100				
1,2,3,7,8,9-HxCDF	ND	----	0.0100		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.0100		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.0110	A	2,3,7,8-TCDD-37Cl4	0.20	47
1,2,3,6,7,8-HxCDD	ND	----	0.0110	A			
1,2,3,7,8,9-HxCDD	ND	----	0.0100				
Total HxCDD	0.011	----	0.0100	J			
1,2,3,4,6,7,8-HpCDF	ND	----	0.0130	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0100		Equivalence: 0.00038 ng/m2		
Total HpCDF	ND	----	0.0100		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.020	----	0.0130	JA			
Total HpCDD	0.020	----	0.0100	J			
OCDF	ND	----	0.0200				
OCDD	0.180	----	0.0200				

2nd floor hallway near staircase

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
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 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....02-1053530

REPORT OF LABORATORY ANALYSIS

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FEB-19-02 12:53

FROM-PACE ANALYTICAL

612-607-6444

T-547 P 05/05 F-876

1700 Elm Street - Suite 200
Minneapolis, MN 55414Tel: 612-607-1700
Fax: 612-607-6444**Pace Analytical™****Method 8290 Analysis Results**

Client - ATC

Client's Sample ID ATC-0125-89M-DX4
 Lab Sample ID 103292421
 Filename U20212B_14
 Injected By BAL
 Total Amount Extracted 1 m2
 % Moisture NA
 Dry Weight Extracted NA
 ICAL Date 01/25/2002
 CCal Filename(s) U20212A_11 & U20212B_15
 Method Blank ID BLANK-1457

Matrix WIPE
 Dilution NA
 Collected 01/25/2002
 Received 01/29/2002
 Extracted 02/08/2002
 Analyzed 02/13/2002 10:19

DRAFT

Native Isomers	Conc ng/m2	EMPC ng/m2	LRL ng/m2	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.0029 A	2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	----	0.0020	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	----	0.0048 A	2,3,4,7,8-PeCDF-13C	2.00	66
Total TCDD	ND	----	0.0020	1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	----	0.0100	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	----	0.0100	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	ND	----	0.0100	1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	----	0.0100	1,2,3,4,6,7,8-HpCDF-13C	2.00	93
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	----	0.0100	1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	----	0.0100	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	----	0.0100			
1,2,3,7,8,9-HxCDF	ND	----	0.0100	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.0100	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.0100	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	----	0.0100			
1,2,3,7,8,9-HxCDD	ND	----	0.0100			
Total HxCDD	ND	----	0.0100			
1,2,3,4,6,7,8-HpCDF	ND	----	0.0100	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.0100	Equivalence: 0.00 ng/m2		
Total HpCDF	ND	----	0.0100	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.0100			
Total HpCDD	ND	----	0.0100			
OCDF	ND	----	0.0200			
OCDD	ND	----	0.0200			

Field Blank

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
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Report No.....02-1053530

REPORT OF LABORATORY ANALYSIS

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CITY_21MC100_002880342