

EPA METHOD 8141A / 619
Organophosphorous Compounds



Data Validation Package
for

EPA METHOD 8141A / 619
Organophosphorous Compounds

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EPA METHOD 8141A / 619
Organophosphorous Compounds

Case Narrative





Case Narrative

ARF: 64443

Project: East San Joaquin Water Quality Coalition

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sample Receipt Information:

The sample group was received April 20, 2011, at 2.5°C, 2.5°C, 2.5°C, 2.5°C, 2.5°C, 2.5°C, 2.5°C, 2.5°C, and 2.5°C. The samples were assigned Analytical Request Form (ARF) number 64443. The sample numbers and requested analyses were compared to the chains of custody. No exception was noted.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
535XRCARD-GR	AY35962	WATER	04/19/11	04/20/11
535XDCAWR-GR	AY35963	WATER	04/19/11	04/20/11
535YGDETR-GR	AY35964	WATER	04/19/11	04/20/11
535XPFDCL-GR	AY35965	WATER	04/19/11	04/20/11
535XHCHNN-GR	AY35966	WATER	04/19/11	04/20/11
535XHCALR-GR	AY35967	WATER	04/19/11	04/20/11
535XMRSFD-GR	AY35968	WATER	04/19/11	04/20/11
545XCCART-GR,MS	AY35969	WATER	04/19/11	04/20/11
545XBAAE-GR	AY35970	WATER	04/19/11	04/20/11
535XMLAHO-GR	AY35971	WATER	04/19/11	04/20/11
545XCCART-GR2	AY35972	WATER	04/19/11	04/20/11
545XCCART-FB	AY35973	WATER	04/19/11	04/20/11
535DMCAHF-GR	AY35974	WATER	04/19/11	04/20/11
535XDSAGR-GR	AY35975	WATER	04/19/11	04/20/11
545XDCARE-GR	AY35976	WATER	04/19/11	04/20/11
535LTHNKR-GR	AY35977	WATER	04/19/11	04/20/11

EPA method 619

Triazine Herbicides

Revised report: April 9, 2012

The report was revised to remove all detections for Sample ID: 545BSAAE-GR. Analyst and reviewer error caused the incorrect reporting of several analytes that were outside retention time windows and did not meet confirmation criteria.

Sample Preparation:

The water samples were extracted according to EPA method 619. All holding times were met.

Sample Analysis Information:

The samples were analyzed for Triazine Herbicides according to EPA method 619 using a Hewlett Packard GC equipped with an NPD.

Quality Control/Assurance

Spike Recovery

A laboratory control spike (LCS) was used for quality assurance. All spike recoveries met acceptance criteria.

Sample 545XCCART-GR,MS was designated by the client for MS/MSD analysis. All MS/MSD acceptance criteria were met.

Method blanks

No target compound was detected at or above the reporting level.

Surrogates

Surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Calibration

The initial and continuing calibrations were performed according to the method. All calibration acceptance criteria were met.

Summary:

No problem was encountered. The data generated are acceptable.

EPA method 8141A

Organophosphorous Compounds

Revised report: April 9, 2012

The report was revised to remove all detections for Sample ID: 545BSAAE-GR. Analyst and reviewer error caused the incorrect reporting of several analytes that were outside retention time windows and did not meet confirmation criteria.

Sample Preparation:

The water samples were extracted according to EPA method 3510C. All holding times were met.

Sample Analysis Information:

The samples were analyzed for Organophosphorous Pesticides according to EPA method 8141A using a Hewlett Packard GC equipped with an NPD.

Quality Control/Assurance

Spike Recovery

A Laboratory control spike (LCS) was used for quality assurance. Dimethoate recovered below the 68% lower control limit in the LCS at 55.6%. All other spike recoveries met acceptance criteria.

Sample 545XCCART-GR,MS was designated by the client for MS/MSD analysis. All MS/MSD acceptance criteria were met.

Method blanks

No target compound was detected at or above the reporting level.

Surrogates

Surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Calibration

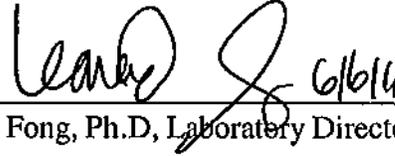
The initial and continuing calibrations were performed according to the method. All calibration acceptance criteria were met.

Summary:

No other problem was encountered.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read "Leonard Fong", written over a horizontal line. The signature is cursive and includes a date "6/6/14" written to the right of the main signature.

Leonard Fong, Ph.D, Laboratory Director / Date

EPA METHOD 8141A / 619
Organophosphorous Compounds

Chain of Custody and ARF



APPL - Analysis Request Form

64443

Client: Michael L Johnson LLC
 Address: 632 Cantrill Dr.
Davis, CA 95618
 Attn: Michael Johnson
 Phone: 530-756-5200 Fax: 530-756-5225
 Job: East San Joaquin Water Quality Coalition
 PO #: NA
 Chain of Custody (Y/N): Y # _____
 RAD Screen (Y/N): Y pH (Y/N): N
 Turn Around Type: STD

Received by: TBV 
 Date Received: 04/20/11 Time: 12:35
 Delivered by: EXTRA MILE
 Shuttle Custody Seals (Y/N): N
 Chest Temp(s): SEE CRF 2.5°C
 Color: A-GRN
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Cynthia Clark *cc*
 QC Report Type: DVP 3/SWAMP EDD/CA
 Due Date: 05/11/11

Comments:

*LOW LEVEL SPECIAL PESTICIDES. Every ARF should have MS/MSD, if not needs LCS/LCSD.
 Client code has special analyte list (self calculating forms, show MDL)
 Extended lists have X-Spksl See project specific analyte list!
 NO HC pdf to ftp notify mjohnson@mlj-llc.com mturner@mlj-llc.com rwest@mlj-llc.
 Include coalition and sample date in e-mail subject line, NO CD
 Note in case narrative if QC was performed on a sample from a different ARF.
 Special instructions for samples AY35976 - 35977.*

Sample Distribution:

5/24
GC: 14-\$619AG, 16-\$814AG2, 14-\$88PAGL, 14-\$TOXW
Extractions: 14- LIQ009, 14- SEP009A, 16- SEP025
LCMS: 14-\$832AG, 14-\$832AGM2, 5-10
16

Charges:

Invoice To:

M L JOHNSON
1815 Michelangelo Pl.
Davis, CA 95618

Client ID	APPL ID	Sampled	Analyses Requested
1. 535XRCARD-GR	AY35962W <small>xspk/lcscd</small>	04/19/11 08:30	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
2. 535XDCAWR-GR	AY35963W <small>xspk/lcscd</small>	04/19/11 10:00	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
3. 535YGDETR-GR	AY35964W <small>xspk/lcscd</small>	04/19/11 11:30	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
4. 535XPFDCCL-GR	AY35965W <small>xspk/lcscd</small>	04/19/11 13:20	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
5. 535XHCHNN-GR	AY35966W <small>xspk/lcscd</small>	04/19/11 16:50	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW

APPL - Analysis Request Form

64443

6.	535XHCALR-GR	xspk/lcsd	AY35967W	04/19/11	14:40	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
7.	535XMRSFD-GR	xspk/lcsd	AY35968W	04/19/11	15:40	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
8.	545XCCART-GR,MS	xspk/MS/MSD	AY35969W	04/19/11	11:10	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
9.	545XBSAAE-GR	xspk/lcsd	AY35970W	04/19/11	14:20	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
10.	535XMLAHO-GR	xspk/lcsd	AY35971W	04/19/11	18:20	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
11.	545XCCART-GR2	xspk/lcsd	AY35972W	04/19/11	11:10	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
12.	545XCCART-FB	xspk/lcsd	AY35973W	04/19/11	11:10	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
13.	535DMCAHF-GR	xspk/lcsd	AY35974W	04/19/11	16:00	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
14.	535XDSAGR-GR	xspk/lcsd	AY35975W	04/19/11	17:20	\$619AG, \$814AG2, \$832AG, \$832AGM2, \$88PAGL, \$TOXW
15.	545XDCARE-GR	xspk/lcsd	AY35976W	04/19/11	13:20	\$814AG2 -- Chlorpyrifos only
16.	535LTHNKR-GR	xspk/lcsd	AY35977W	04/19/11	12:20	\$814AG2 -- Chlorpyrifos only

Initials _____ Date _____

APPL Sample Receipt Form

ARF# 64443

Sample	Container Type	Count	pH
AY35962	17 Amber Liter	5	NA
AY35963	17 Amber Liter	5	NA
AY35964	17 Amber Liter	5	NA
AY35965	17 Amber Liter	5	NA
AY35966	17 Amber Liter	5	NA
AY35967	17 Amber Liter	5	NA
AY35968	17 Amber Liter	5	NA
AY35969	17 Amber Liter	5	NA
	26 Other	3	NA
AY35970	17 Amber Liter	5	NA
AY35971	17 Amber Liter	5	NA
AY35972	17 Amber Liter	5	NA
AY35973	17 Amber Liter	5	NA
AY35974	17 Amber Liter	5	NA
AY35975	17 Amber Liter	5	NA
AY35976	17 Amber Liter	2	NA
AY35977	17 Amber Liter	2	NA

Sample Container Type Count pH



APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
 Address: 632 Cantrell Dr., Davis, CA 95618
 Sampled By: F. Wulff, K. Story
 Phone: (530) 756-5200
 Fax: (530) 756-5225
 Project Manager: Michael Johnson
 Project Name: East San Joaquin Water Quality Coalition

Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	SAMPLE COMMENTS
535XRCARD-GR	04/19/11	0830	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XDCAWR-GR	04/19/11	1000	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535YGDETR-GR	04/19/11	1130	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XPFDL-GR	04/19/11	1320	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XCHNN-GR	04/19/11	1650	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XHCALR-GR	04/19/11	1440	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XNRSFD-GR	04/19/11	1540	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	

Comments:
 Please fax signed and completed COC to MLJ LLC:
 (530) 756-5225, or email to fwulff@mlj-llc.com
 * See project-specific guidelines for exact analyte list

Signature	Relinquished By	Signature	Relinquished By
<i>Kendall Story</i>	<i>Kendall Story</i>	<i>Don Richards</i>	<i>Don Richards</i>
Print Name	Kendall Story	Print Name	Don Richards
Organization	MLJ-LLC	Organization	EX MILE
Date	04/20/2011	Date	4-20-11
Time	0915	Time	1235
Signature	Received By	Signature	Received By
<i>Don Richards</i>	<i>Don Richards</i>	<i>Tom Veng</i>	<i>Tom Veng</i>
Print Name	Don Richards	Print Name	Tom Veng
Organization	EX MILE	Organization	APPR
Date	4-20-11	Date	4/20/11
Time	0915	Time	1235

Temperature at Log In: _____ (°C)

Matrix codes: SED = sediment, FW = freshwater, WW = wastewater, STRWW = stormwater

Client Name: MLJ-LLC
 Address: 1632 Cantrell Dr., Davis, CA 95618
 Sampled By: **F. Wulff, K. Stony**
 Phone: (530) 756-5200
 Fax: (530) 756-5225
 Project Manager: Michael Johnson
 Project Name: East San Joaquin Water Quality Coalition

Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Carbamate pesticides by EPA 8321A*	Organochlorine pesticides by EPA 8081A*	Organophosphorus pesticides by EPA 8141A*	Methamidiphos by EPA 8141A*	Herbicides by EPA 619, EPA 8321, EPA 8141A*	Group A Pesticides by EPA 8081A*	SAMPLE COMMENTS
545XCART-GR	04/19/11	1110	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
545XSAAE-GR	04/19/11	1420	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XMLAHO-GR	04/19/11	1820	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
545XCART-GR2	04/19/11	1110	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
545XCART-FB	04/19/11	1110	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
545XCART-MS	04/19/11	1110	FW	3	1-G Amber Glass	Ice	X	X	X	X	X	X	MATRIX SPIKE
535DMCAHF-GR	04/19/11	1600	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	
535XDSAGR-GR	04/19/11	1720	FW	5	1-L Amber Glass	Ice	X	X	X	X	X	X	

Comments:
 Please fax signed and completed COC to MLJ LLC:
 (530) 756-5225, or email to fwulff@mlj-llc.com
 * See project-specific guidelines for exact analyte list

Signature	Relinquished By	Signature	Relinquished By
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Print Name Kendall Stony		Print Name Doug Richards	
Organization MLJ-LLC		Organization Eco M.I.E	
Date 04/20/2011	Time 0915	Date 4-20-11	Time 1235
Signature <i>[Signature]</i>	Received By	Signature <i>[Signature]</i>	Received By
Print Name Doug Richards		Print Name Tom Voney	
Organization Eco M.I.E		Organization Appl	
Date 4-20-11	Time 0915	Date 4/20/11	Time 1235

Temperature at Log In: _____ (°C)

Matrix codes: SED = sediment, FW = freshwater, WW = wastewater, STRMW = stormwater



MICHAEL L. JOHNSON LLC
 ECOSYSTEMS CONSULTING

APPL CHAIN-OF-CUSTODY RECORD

Client Name: MLJ-LLC
 Address: 632 Cantrell Dr., Davis, CA 95618
 Sampled By: F. Wulff, K. Story
 Phone: (530) 756-5200
 Fax: (530) 756-5225
 Project Manager: Michael Johnson
 Project Name: East San Joaquin Water Quality Coalition

Sample Identification	Sample Date	Sample Time	Sample Matrix	Number	Type	Preservative	Organophosphorus pesticides by EPA 8141A*	SAMPLE COMMENTS
54SYDCARE-GR	04/19/11	1320	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos only
535LTHINKR-GR	04/19/11	1220	FW	2	1-L Amber Glass	Ice	X	Chlorpyrifos only

Comments:
 Please fax signed and completed COC to MLJ LLC:
 (530) 756-5225, or email to fwulff@mlj-llc.com
 * See project-specific guidelines for exact analyte list

Temperature at Log In: _____ (°C)

Relinquished By		Received By	
Signature	Kendall Story	Signature	Tom Veng
Print Name	Kendall Story	Print Name	Tom Veng
Organization	MLJ-LLC	Organization	APPL
Date	04/20/2011	Date	4/20/11
Time	0915	Time	1235
Signature	Doug Richards	Signature	
Print Name	Doug Richards	Print Name	
Organization	ES&M IVE	Organization	
Date	4-20-11	Date	4/20/11
Time		Time	1235

Matrix codes: SED = sediment, FW = freshwater, WW = wastewater, STRMW = stormwater

COOLER RECEIPT FORM

1) Project: East San Joaquin Water Quality Coalition Date Received: 4/20/11

2) Coolers: Number of Coolers: 9

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? _____ Date on seal? _____

5) Name on seal? _____

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Expro Mite

8) Shipping slip numbers: 1) _____ 2) _____ 3) _____

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Bubble wrap, wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: 14-29264 Correction factor: 0

15) Cooler temp(s): 1) 2.5°C 2) 2.5°C 3) 2.5°C 4) 2.5°C 5) 2.5°C 6) 2.5°C 7) 2.5°C 8) 2.5°C

Chain of custody: 9) 2.5°C

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 10?

Lab notified if pH was not adequate: _____

Deficiencies: _____

Signature of personnel receiving samples: [Signature] Second reviewer: [Signature]

Signature of project manager notified: _____ Date and Time of notification: _____

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____

_____ by whom (Initials): _____

**EPA METHOD 8141A / 619
Organophosphorous Compounds**

QC Summary



Method Blank
Triazines in Water

Blank Name/QCG: **110422W-35969 - 155626**
Batch ID: #619AG-110422A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
BLANK	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
BLANK	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIBUTYLPHOSPHATE	85.2	62-145		%	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIPHENYLPHOSPHA	79.2	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429043
Instrument: Ople
Sequence: 110429
Initials: LA

GC SC-Blank-REG MDLs
Printed: 6/1/2011 2:20:34 PM

Method Blank

EPA 8141A LL Water

Blank Name/QCG: **110422W-35969 - 155625**
 Batch ID: #814AG-110422A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
BLANK	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
BLANK	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
BLANK	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
BLANK	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
BLANK	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
BLANK	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
BLANK	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
BLANK	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
BLANK	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
BLANK	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
BLANK	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
BLANK	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIBUTYLPHOSPHATE	85.2	60-150		%	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIPHENYLPHOSPHA	79.2	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M Run #: 0429043 Instrument: Opte Sequence: 110429 Initials: LA

GC SC-Blank-REG MDLs
 Printed: 6/1/2011 2:20:34 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
 Case No: 64443
 Matrix: WATER

SDG No: 64443
 Date Analyzed: 4/30/2011
 Instrument: Opie

APPL ID.	Client Sample No.	SURROGATE: TRIBUTYLPHOSPHATE (S)	SURROGATE: TRIPHENYLPHOSPHATE (S)
110422A-BLK	Blank	85.2	79.2
110422A-LCS	Lab Control Spike	91.2	90.8
AY35962	535XRCARD-GR	91.3	88.1
AY35963	535XDCAWR-GR	71.4	71.0
AY35964	535YGDETR-GR	83.6	81.1
AY35965	535XPFDCCL-GR	82.2	69.6
AY35966	535XHCHNN-GR	80.9	77.0
AY35967	535XHCALR-GR	107	97.0
AY35968	535XMRSFD-GR	78.3	78.4
AY35969	545XCCART-GR,MS	71.5	72.7
AY35969-MS	Matrix Spike	98.4	90.0
AY35969-MSD	Matrix SpikeD	92.4	87.2
AY35970	545XBSAAE-GR	78.9	77.7
AY35971	535XMLAHO-GR	76.0	72.1
AY35972	545XCCART-GR2	81.8	79.1
AY35973	545XCCART-FB	67.8	71.7
AY35974	535DMCAHF-GR	76.1	70.7
AY35975	535XDSAGR-GR	86.1	81.6

Comments: Batch: #619AG-110422A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 64443

Case No: 64443

Date Analyzed: 4/30/2011

Matrix: WATER

Instrument: Opie

APPL ID.	Client Sample No.	SURROGATE: TRIBUTYLPHOSPHATE (S)	SURROGATE: TRIPHENYLPHOSPHATE (S)
110422A-BLK	Blank	85.2	79.2
110422A-LCS	Lab Control Spike	91.2	90.8
AY35962	535XRCARD-GR	91.3	88.1
AY35963	535XDCAWR-GR	71.4	71.0
AY35964	535YGDETR-GR	83.6	81.1
AY35965	535XPFDCCL-GR	82.2	69.6
AY35966	535XHCHNN-GR	80.9	77.0
AY35967	535XHCALR-GR	107	97.0
AY35968	535XMRSFD-GR	78.3	78.4
AY35969	545XCCART-GR,MS	71.5	72.7
AY35969-MS	Matrix Spike	98.4	90.0
AY35969-MSD	Matrix SpikeD	92.4	87.2
AY35970	545XBSAAE-GR	78.9	77.7
AY35971	535XMLAHO-GR	76.0	72.1
AY35972	545XCCART-GR2	81.8	79.1
AY35973	545XCCART-FB	67.8	71.7
AY35974	535DMCAHF-GR	76.1	70.7
AY35975	535XDSAGR-GR	86.1	81.6
AY35976	545XDCARE-GR	90.0	86.9
AY35977	535LTHNKR-GR	81.7	79.4

Comments: Batch: #814AG-110422A

Laboratory Control Spike Recovery

Triazines in Water

APPL ID: 110422W-35969 LCS - 155626

Batch ID: #619AG-110422A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
ATRAZINE	2.50	1.96	78.4	39-156
CYANAZINE	5.00	3.15	63.0	22-172
SIMAZINE	2.50	1.95	78.0	21-179
<hr style="border-top: 1px dashed black;"/>				
SURROGATE: TRIBUTYLPHOSPHATE (	2.50	2.28	91.2	62-145
SURROGATE: TRIPHENYLPHOSPHATE	2.50	2.27	90.8	54-144
<hr style="border-top: 1px dashed black;"/>				

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	PEW0429.M
Extraction Date :	4/22/2011
Analysis Date :	4/30/2011
Instrument :	Opie
Run :	0429044
Initials :	LA

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APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8141A LL Water

APPL ID: 110422W-35969 LCS - 155625

Batch ID: #814AG-110422A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
AZINPHOSMETHYL	2.50	1.99	79.6	36-189
CHLORPYRIFOS	5.00	4.57	91.4	61-125
DEMETON-S	0.750	0.452	60.3	40-125
DIAZINON	2.50	2.26	90.4	57-130
DICHLORVOS	2.50	1.71	68.4	10-175
DIMETHOATE	2.50	1.39	55.6 #	68-202
DISULFOTON	2.50	2.26	90.4	47-117
MALATHION	2.50	2.43	97.2	47-125
METHIDATHION	2.50	2.40	96.0	50-150
PARATHION, METHYL	2.50	2.08	83.2	55-164
PHORATE	2.50	2.46	98.4	44-117
PHOSMET	2.50	2.05	82.0	50-150
TRIFLURALIN	2.50	2.20	88.0	40-148
<hr style="border-top: 1px dashed black;"/>				
SURROGATE: TRIBUTYLPHOSPHATE (	2.50	2.28	91.2	60-150
SURROGATE: TRIPHENYLPHOSPHATE	2.50	2.27	90.8	56-129

= Recovery is outside QC limits.

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	PEW0429.M
Extraction Date :	4/22/2011
Analysis Date :	4/30/2011
Instrument :	Opie
Run :	0429044
Initials :	LA

Printed: 6/1/2011 2:20:24 PM

APPL Standard LCS

Matrix Spike Recoveries Triazines in Water

APPL ID: 110422W-35969 MS - 155626

Batch ID: #619AG-110422A

Sample ID: AY35969

Client ID: 545XCCART-GR,MS

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
ATRAZINE	2.50	ND	2.01	1.91	80.4	76.4	39-156	5.1	25
CYANAZINE	5.00	ND	3.20	3.10	64.0	62.0	22-172	3.2	25
SIMAZINE	2.50	ND	2.13	2.01	85.2	80.4	21-179	5.8	25
SURROGATE: TRIBUTYLPHOSPHATE (S	2.50	NA	2.46	2.31	98.4	92.4	62-145		
SURROGATE: TRIPHENYLPHOSPHATE	2.50	NA	2.25	2.18	90.0	87.2	54-144		

Comments:

Primary	SPK	DUP
Quant Method :	PEW0429.M	PEW0429.M
Extraction Date :	4/22/2011	4/22/2011
Analysis Date :	4/30/2011	4/30/2011
Instrument :	Ople	Ople
Run :	0429053	0429054
Initials :	LA	

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APPL MSD SCII

Matrix Spike Recoveries

EPA 8141A LL Water

APPL ID: 110422W-35969 MS - 155625
 Batch ID: #814AG-110422A
 Sample ID: AY35969
 Client ID: 545XCCART-GR,MS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
AZINPHOSMETHYL	2.50	ND	2.10	2.04	84.0	81.6	36-189	2.9	25
CHLORPYRIFOS	5.00	ND	4.60	4.37	92.0	87.4	61-125	5.1	25
DEMETON-S	0.750	ND	0.555	0.501	74.0	68.8	40-125	10.2	25
DIAZINON	2.50	ND	2.35	2.28	94.0	91.2	57-130	3.0	25
DICHLORVOS	2.50	ND	1.79	1.69	71.6	67.6	10-175	5.7	25
DIMETHOATE	2.50	ND	2.00	1.85	80.0	74.0	68-202	7.8	25
DISULFOTON	2.50	ND	2.22	2.06	88.8	82.4	47-117	7.5	25
MALATHION	2.50	ND	2.55	2.37	102	94.8	47-125	7.3	25
METHIDATHION	2.50	ND	2.36	2.29	94.4	91.6	50-150	3.0	25
PARATHION, METHYL	2.50	ND	2.14	2.08	85.6	83.2	55-164	2.8	25
PHORATE	2.50	ND	2.40	2.24	96.0	89.6	44-117	6.9	25
PHOSMET	2.50	ND	2.18	2.08	87.2	83.2	50-150	4.7	25
TRIFLURALIN	2.50	ND	2.16	2.05	86.4	82.0	40-148	5.2	25
SURROGATE: TRIBUTYLPHOSPHATE (S	2.50	NA	2.46	2.31	98.4	92.4	60-150		
SURROGATE: TRIPHENYLPHOSPHATE	2.50	NA	2.25	2.18	90.0	87.2	56-129		

Comments: _____

Primary	SPK	DUP
Quant Method :	PEW0429.M	PEW0429.M
Extraction Date :	4/22/2011	4/22/2011
Analysis Date :	4/30/2011	4/30/2011
Instrument :	Opie	Opie
Run :	0429053	0429054
Initials :	LA	

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 APPL MSD SCII

EPA 619

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 64443

Case No: 64443

Date Analyzed: 4/30/2011

Matrix: WATER

Instrument: Opie

Blank ID: 110422A-BLK

Time Analyzed: 1011

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110422A-BLK	Blank	0429043	4/30/2011 1011
110422A-LCS	Lab Control Spike	0429044	4/30/2011 1041
AY35962	535XRCARD-GR	0429045	4/30/2011 1111
AY35963	535XDCAWR-GR	0429046	4/30/2011 1141
AY35964	535YGDETR-GR	0429047	4/30/2011 1211
AY35965	535XPFDCI-GR	0429048	4/30/2011 1241
AY35966	535XHCHNN-GR	0429049	4/30/2011 1311
AY35967	535XHCALR-GR	0429050	4/30/2011 1341
AY35968	535XMRSFD-GR	0429051	4/30/2011 1411
AY35969	545XCCART-GR,MS	0429052	4/30/2011 1441
110422A-MS	Matrix Spike	0429053	4/30/2011 1511
110422A-MSD	Matrix SpikeD	0429054	4/30/2011 1541
AY35970	545XBSAAE-GR	0429056	4/30/2011 1641
AY35971	535XMLAHO-GR	0429057	4/30/2011 1711
AY35972	545XCCART-GR2	0429058	4/30/2011 1741
AY35973	545XCCART-FB	0429059	4/30/2011 1811
AY35974	535DMCAHF-GR	0429060	4/30/2011 1841
AY35975	535XDSAGR-GR	0429061	4/30/2011 1911

Comments: Batch: #619AG-110422A

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Form 4, Blank Summary

EPA 8141A

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 64443

Case No: 64443

Date Analyzed: 4/30/2011

Matrix: WATER

Instrument: Opie

Blank ID: 110422A-BLK

Time Analyzed: 1011

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110422A-BLK	Blank	0429043	4/30/2011 1011
110422A-LCS	Lab Control Spike	0429044	4/30/2011 1041
AY35962	535XRCARD-GR	0429045	4/30/2011 1111
AY35963	535XDCAWR-GR	0429046	4/30/2011 1141
AY35964	535YGDETR-GR	0429047	4/30/2011 1211
AY35965	535XPFDCCL-GR	0429048	4/30/2011 1241
AY35966	535XHCHNN-GR	0429049	4/30/2011 1311
AY35967	535XHICALR-GR	0429050	4/30/2011 1341
AY35968	535XMRSFD-GR	0429051	4/30/2011 1411
AY35969	545XCCART-GR,MS	0429052	4/30/2011 1441
110422A-MS	Matrix Spike	0429053	4/30/2011 1511
110422A-MSD	Matrix SpikeD	0429054	4/30/2011 1541
AY35970	545XBSAAE-GR	0429056	4/30/2011 1641
AY35971	535XMLAHO-GR	0429057	4/30/2011 1711
AY35972	545XCCART-GR2	0429058	4/30/2011 1741
AY35973	545XCCART-FB	0429059	4/30/2011 1811
AY35974	535DMCAHF-GR	0429060	4/30/2011 1841
AY35975	535XDSAGR-GR	0429061	4/30/2011 1911
AY35976	545XDCARE-GR	0429062	4/30/2011 1941
AY35977	535LTHNKR-GR	0429063	4/30/2011 2011

Comments: Batch: #814AG-110422A

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Form 4, Blank Summary

EPA METHOD 8141A / 619
Organophosphorous Compounds

Sample Data



Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XRCARD-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35962

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	91.3	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	88.1	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429045
Instrument: Opte
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XRCARD-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35962

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	91.3	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	88.1	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429045
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XDCAWR-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35963

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	71.4	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	71.0	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429046
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XDCAWR-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35963

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	71.4	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	71.0	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429046
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson
Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535YGDETR-GR

APPL ID: AY35964

Sample Collection Date: 4/19/2011

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	83.6	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	81.1	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429047
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535YGDETR-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35964

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	83.6	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	81.1	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429047
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XPFDCCL-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35965

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	82.2	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	69.6	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429048
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XPFDCL-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35965

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	82.2	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	69.6	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429048
Instrument: Ople
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

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Attn: Michael Johnson
Project: East San Joaquin Water Quality Coalition
Sample ID: 535XHCHNN-GR
Sample Collection Date: 4/19/2011

ARF: 64443
APPL ID: AY35966
QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	80.9	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	77.0	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429049
Instrument: Ople
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XHCHNN-GR

APPL ID: AY35966

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	80.9	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	77.0	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429049
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NO-MC-REG MDLs

Triazines in Water

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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XHCALR-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35967

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	107	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	97.0	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429050
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM

APPL-F1-SC-NO-MC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
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Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XHCALR-GR

APPL ID: AY35967

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	107	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	97.0	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429050
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

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Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XMRSFD-GR

APPL ID: AY35968

Sample Collection Date: 4/19/2011

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	78.3	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	78.4	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429051
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:29 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

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Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XMRSFD-GR

APPL ID: AY35968

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	78.3	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	78.4	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429051
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM

APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XCCART-GR,MS

APPL ID: AY35969

Sample Collection Date: 4/19/2011

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	71.5	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	72.7	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429052
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

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Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XCCART-GR,MS

APPL ID: AY35969

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	71.5	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	72.7	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429052
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XBSAAE-GR

APPL ID: AY35970

Sample Collection Date: 04/19/11

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	04/22/11	04/30/11
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	04/22/11	04/30/11
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	04/22/11	04/30/11
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	78.9	62-145		%	04/22/11	04/30/11
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	77.7	54-144		%	04/22/11	04/30/11

AMENDED PAGE

Quant Method: PEW0429.M
Run #: 0429056
Instrument: Ople
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 545XBSAAE-GR

Sample Collection Date: 04/19/11

ARF: 64443

APPL ID: AY35970

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	04/22/11	04/30/11
EPA 8141A	CHLORPYRIFOS	0.021	0.015	0.0026	ug/L	04/22/11	04/30/11
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	04/22/11	04/30/11
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	04/22/11	04/30/11
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	04/22/11	04/30/11
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	04/22/11	04/30/11
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	04/22/11	04/30/11
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	04/22/11	04/30/11
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	04/22/11	04/30/11
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	04/22/11	04/30/11
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	04/22/11	04/30/11
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	04/22/11	04/30/11
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	04/22/11	04/30/11
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	78.9	60-150		%	04/22/11	04/30/11
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	77.7	56-129		%	04/22/11	04/30/11

AMENDED PAGE

Quant Method: PEW0429.M
Run #: 0429056
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535XMLAHO-GR

Sample Collection Date: 4/19/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 64443

APPL ID: AY35971

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	76.0	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	72.1	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429057
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XMLAHO-GR

APPL ID: AY35971

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	76.0	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	72.1	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429057
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM
APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 545XCCART-GR2

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35972

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	81.8	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	79.1	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429058
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

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APPL Inc.
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Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 545XCCART-GR2

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35972

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	81.8	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	79.1	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429058
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM
APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

Michael L Johnson LLC
632 Cantrill Dr.
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XCCART-FB

APPL ID: AY35973

Sample Collection Date: 4/19/2011

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	67.8	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	71.7	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429059
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
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APPL Inc.
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Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XCCART-FB

APPL ID: AY35973

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	67.8	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	71.7	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429059
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

Sample ID: 535DMCAHF-GR

Sample Collection Date: 4/19/2011

ARF: 64443

APPL ID: AY35974

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	76.1	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	70.7	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429060
Instrument: Ople
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
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Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535DMCAHF-GR

APPL ID: AY35974

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	0.016	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	76.1	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	70.7	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429060
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

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APPL-F1-SC-NoMC-REG MDLs

Triazines in Water

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Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XDSAGR-GR

APPL ID: AY35975

Sample Collection Date: 4/19/2011

QCG: #619AG-110422A-155626

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 619	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
EPA 619	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
EPA 619	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIBUTYLPHOSPHAT	86.1	62-145		%	4/22/2011	4/30/2011
EPA 619	SURROGATE: TRIPHENYLPHOSPHA	81.6	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429061
Instrument: Ople
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:30 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535XDSAGR-GR

APPL ID: AY35975

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
EPA 8141A	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
EPA 8141A	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
EPA 8141A	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
EPA 8141A	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
EPA 8141A	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
EPA 8141A	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
EPA 8141A	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
EPA 8141A	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	86.1	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	81.6	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429061
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:31 PM

APPL-F1-SC-NonMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
632 Cantrill Dr.
Davis, CA 95618

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 545XDCARE-GR

APPL ID: AY35976

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	90.0	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	86.9	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429062
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:31 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8141A LL Water

Michael L Johnson LLC
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Attn: Michael Johnson

Project: East San Joaquin Water Quality Coalition

ARF: 64443

Sample ID: 535LTHNKR-GR

APPL ID: AY35977

Sample Collection Date: 4/19/2011

QCG: #814AG-110422A-155625

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8141A	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIBUTYLPHOSPHAT	81.7	60-150		%	4/22/2011	4/30/2011
EPA 8141A	SURROGATE: TRIPHENYLPHOSPHA	79.4	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429063
Instrument: Opie
Sequence: 110429
Dilution Factor: 1
Initials: LA

Printed: 6/1/2011 2:20:31 PM
APPL-F1-SC-NoMC-REG MDLs

EPA METHOD 8141A / 619
Organophosphorous Compounds

Calibration Data



Organophosphorus Pesticide Analysis
PEW0429

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64443
 Case No: Initial Cal. Date: 4/29/2011
 Matrix: Water Instrument: Opie

Initials: LAC

1	2	3	4	5	6	1a	Avg	%RSD	
1 TAMIL Dichlorvos	198140	392321	439235	439469	461190	171400	341044	36	TAML 0.999
2 TAM EPTC	128090	165177	166864	166489	174724	125900	152406	13	TAM
3 TCML Malinate	83410	111976	139845	150217	147228	77400	123639	26	TCML 0.999
4 TBM Trifluralin	94150	108766	122403	125864	122211	91100	113464	14	TBM
5 SB Tributyl Phosphate	463210	625638	735469	678692	690310		652771	15	SB
6 TAMIL Demeton-O	114686	175754	226424	262105	254477	87143	199235	38	TAML 0.998
7 TBM Phorate	430180	571442	654570	661507	618825	382800	564239	20	TBM
8 TAMIL Demeton-S	440167	1045847	1347897	1416302	1371473	72667	1005470	53	TAML 0.999
9 TBM Diazinon	617820	702452	780044	757806	711737	569000	693182	11	TBM
10 TCML Atrazine	162810	242562	329396	390571	377455		318259	30	TCML 0.998
11 TCML Simazine	176016	268152	336336	37455	377632		299008	26	TCML 0.995
12 TAM Disulfoton	696718	740267	730496	685110	690786	411150	630257	20	TAM
13 TCML Dimethoate	271020	489820	689382	774939	743514	788507	562154	44	TCML 0.999
14 TBM Methyl Parathion	347400	503344	628096	661377	641312	267350	528884	31	TBM 1.000
15 TAM Malathion	301545	381921	387102	390858	377174	296725	357286	11	TAM
16 TBM Chlorpyrifos	301545	361921	387102	390858	377174	296725	357286	11	TBM
17 TAMIL Parathion	128690	178414	209904	239022	250059	89550	189268	32	TAML 0.997
18 TCM Thiobencarb	505170	680382	756556	794818	740304		704429	15	TCM
19 TBM Prowl	106810	139416	159628	182742	175903	190645	159191	20	TBM
20 TCML Cyanazine	192870	281328	371754	444372	448924	146250	341493	40	TCML 0.994
21 TCM Methidathion	372920	490034	575004	587892	588907		529219	16	TCM
22 SB Triphenyl Phosphate	512690	608898	639206	595745	591309	662500	604359	7.9	SB
23 TCML Phosmet	162270	253602	329757	346708	352079	122750	275907	36	TCML 0.999
24 TBM Azinphos Methyl	88860	152924	224480	262514	286620	50850	189817	49	TBM 0.998
25							0	0	
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

17.609196

Organophosphorus Pesticide Analysis
PEW0429

Form 6
Initial Calibration

Lab Name: APPL, Inc.

Case No:

Matrix: Water

SDG No: 64443

Initial Cal. Date: 4/29/2011

Instrument: Opie

Initials: LAC

	1	2	3	4	5	6	1a	Avg	%RSD	
36 TAMIL Dichlorvos #2	30660	55210	94300	118884	122565	133524		92524	45	TAML
37 TAMIL EPTC #2	46510	58982	67822	73509	73372	77795		66332	18	TAM
38 TCML Malinate #2	23070	37822	58988	63403	64569	70371	6800	45718	52	TCML
39 TBM Trifluralin #2	48690	57943	67310	70185	67963	71729		64896	16	TBM
40 SB Tributyl Phosphate #2	163030	255688	300489	297282	263783	289859		265057	20	SB
41 TAMIL Demeton-O #2	30957	45471	66097	81998	83450	92255	12071	58900	51	TAML
42 TBM Phorate #2	119750	191502	252100	260443	253357	261600	83000	203107	37	TBM
43 TAMIL Demeton-S #2	19077	63666	110918	128754	128112	136703		97922	48	TAML
44 TBM Diazinon #2	232180	310614	334398	317307	300823	313054	176000	283483	20	TBM
45 TCML Atrazine #2	127536	167263	167263	186892	190738	214778		177441	18	TCML
46 TAMIL Simazine #2	65486	103414	142866	157653	157653	185937		131111	36	TAML
47 TAMIL Disulfoton #2	145420	260432	314130	299628	290746	304683	97950	244713	35	TAML
48 TBM Dimethoate #2	24800	83156	144194	226381	239190	288055		167629	60	TBM
49 TAMIL Methyl Parathion #2	102034	170441	207659	207885	238570			185318	28	TAML
50 TBM Malathion #2	163436	189024	190678	183202	195900			173275	17	TAM
51 TBM Chlorpyrifos #2	117410	132639	131231	132639	129576	140641	61950	113482	26	TBM
52 TAMIL Parathion #2	17260	97653	175676	195738	191017	206041	37850	131605	61	TAML
53 TCML Thiocarb #2	84510	113827	131231	132639	129576	140641	61950	113482	26	TCML
54 TAMIL Prowl #2	37890	50236	61289	74075	72762		33550	54967	31	TAML
55 TCML Cyanazine #2	17260	97653	175676	195738	191017	206041	37850	131605	61	TCML
56 TCML Methidathion #2	55570	107556	182375	214792	219396	232699	31100	149070	56	TCML
57 SB Triphenyl Phosphate #2	128560	177688	221342	217888	217130	223062		197612	19	SB
58 TCML Phosmet #2	62562	109952	139973	141643	154232			121672	30	TCML
59 TBM Azinphos Methyl #2	40874	87602	121726	133807	148081		7050	89873	62	TBM
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										

24.944685

Organophosphorus Pesticide Analysis
PEW0429

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 64443
Date Analyzed: 4/30/2011
Instrument: Opie
Initial Cal. Date: 4/29/2011
Data File: 0429055.D

	Compound	MEAN	CCRF	%D	%Drift
1	TAML Dichlorvos	341044	460557	35	TAML 3.2
2	TAM EPTC	152406	177500	16	TAM
3	TCML Molinate	123639	152581	23	TCML 1.1
4	TBM Trifluralin	113464	126114	11	TBM
5	SB Tributyl Phosphate	652771	738665	13	SB
6	TAML Demeton-O	199235	259963	30	TAML 1.1
7	TBM Phorate	564239	646588	15	TBM
8	TAML Demeton-S	1005470	1392420	38	TAML 2.0
9	TBM Diazinon	693182	760507	9.7	TBM
10	TCML Atrazine	318259	393796	24	TCML 1.3
11	TCML Simazine	299008	354048	18	TCML 2.3
12	TAM Disulfoton	630257	746373	18	TAM
13	TBML Dimethoate	562154	783285	39	TBML 2.3
14	TBML Methyl Parathion	528884	660106	26	TBML 1.8
15	TAM Malathion	357286	399628	12	TAM
16	TBM Chlorpyrifos	357286	399628	12	TBM
17	TAML Parathion	189268	243402	29	TAML 1.6
18	TCM Thiobencarb	704429	780051	11	TCM
19	TAM Prowl	159191	189863	19	TAM
20	TCML Cyanazine	341493	477226	40	TCML 1.4
21	TCM Methidathion	529219	601686	14	TCM
22	SB Triphenyl Phosphate	604359	619448	2.5	SB
23	TCML Phosmet	275807	365525	33	TCML 3.1
24	TBML Azinphos Methyl	189817	276678	46	TBML 2.4
25					
26					
27					
28					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

22.2

Organophosphorus Pesticide Analysis
PEW0429

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 64443
Date Analyzed: 4/30/2011
Instrument: Opie
Cal. Date: 4/29/2011
Data File: 0429055.D

		Compound	MEAN	CCRF	%D		%Drift
41	TAML	Dichlorvos	92524	128645	39	TAML	3.2
42	TAM	EPTC	66332	79508	20	TAM	
43	TCML	Molinate	45718	67743	48	TCML	1.9
44	TBM	Trifluralin#2	64896	74795	15	TBM	
45	SB	Tributyl Phosphate	265057	313379	18	SB	
46	TAML	Demeton-O	58900	88682	51	TAML	2.6
47	TBML	Phorate	203107	280869	38	TBML	8.9
48	TAML	Demeton-S	97922	190866	95	TAML	44 *
49	TBM	Diazinon	283483	343548	21	TBM	
50	TCML	Atrazine	177441	204707	15	TCML	3.6
51	TCMQ	Simazine	131111	160200	22	TCMQ	10
52	TAML	Disulfoton	244713	330399	35	TAML	10
53	TBMQ	Dimethoate	167629	248126	48	TBMQ	11
54	TBML	Methyl Parathion	185318	231291	25	TBML	6.4
55	TAM	Malathion	173275	212344	23	TAM	
56	TBML	Chlorpyrifos	113482	59424	48	TBML	55 *
57	TAML	Parathion	131605	59424	55	TAML	67 *
58	TCML	Thiobencarb	113482	59424	48	TCML	55 *
59	TAML	Prowl	54967	84969	55	TAML	17
60	TCML	Cyanazine	131605	59424	55	TCML	67 *
61	TCML	Methidathion	149070	238591	60	TCML	7.1
62	SB	Triphenyl Phosphate	197612	239413	21	SB	
63	TCML	Phosmet	121672	155111	27	TCML	7.9
64	TBMQ	Azinphos Methyl	89873	137859	53	TBMQ	11
65							
66							
67							
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70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							

Average

39.0

Organophosphorus Pesticide Analysis
PEW0429

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 64443
Date Analyzed: 4/30/2011
Instrument: Opie
Initial Cal. Date: 4/29/2011
Data File: 0429064.D

		Compound	MEAN	CCRF	%D		%Drift
1	TAML	Dichlorvos	341044	419817	23	TAML	5.7
2	TAM	EPTC	152406	166154	9.0	TAM	
3	TCML	Molinate	123639	141175	14	TCML	6.3
4	TBM	Trifluralin	113464	118197	4.2	TBM	
5	SB	Tributyl Phosphate	652771	707958	8.5	SB	
6	TAML	Demeton-O	199235	247489	24	TAML	5.7
7	TBM	Phorate	564239	625947	11	TBM	
8	TAML	Demeton-S	1005470	1299410	29	TAML	4.8
9	TBM	Diazinon	693182	726650	4.8	TBM	
10	TCML	Atrazine	318259	361705	14	TCML	6.6
11	TCML	Simazine	299008	310662	3.9	TCML	9.0
12	TAM	Disulfoton	630257	698852	11	TAM	
13	TBML	Dimethoate	562154	726816	29	TBML	4.8
14	TBML	Methyl Parathion	528884	627909	19	TBML	3.1
15	TAM	Malathion	357286	376501	5.4	TAM	
16	TBM	Chlorpyrifos	357286	376501	5.4	TBM	
17	TAML	Parathion	189268	220414	16	TAML	7.8
18	TCM	Thiobencarb	704429	756303	7.4	TCM	
19	TAM	Prowl	159191	171396	7.7	TAM	
20	TCML	Cyanazine	341493	425587	25	TCML	9.0
21	TCM	Methidathion	529219	573875	8.4	TCM	
22	SB	Triphenyl Phosphate	604359	598673	0.94	SB	
23	TCML	Phosmet	275807	329069	19	TCML	7.0
24	TBML	Azinphos Methyl	189817	249755	32	TBML	7.2
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

13.8

Organophosphorus Pesticide Analysis
PEW0429

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: Water

SDG No: 64443
Date Analyzed: 4/30/2011
Instrument: Opie
Cal. Date: 4/29/2011
Data File: 0429064.D

		Compound	MEAN	CCRF	%D		%Drift
41	TAML	Dichlorvos	92524	116013	25	TAML	6.2
42	TAM	EPTC	66332	72710	9.6	TAM	
43	TCML	Molinate	45718	61550	35	TCML	7.0
44	TBM	Trifluralin#2	64896	67733	4.4	TBM	
45	SB	Tributyl Phosphate	265057	292998	11	SB	
46	TAML	Demeton-O	58900	81187	38	TAML	5.6
47	TBML	Phorate	203107	256540	26	TBML	0.44
48	TAML	Demeton-S	97922	164866	68	TAML	25 *
49	TBM	Diazinon	283483	312763	10	TBM	
50	TCML	Atrazine	177441	184062	3.7	TCML	6.0
51	TCMQ	Simazine	131111	138521	6.7	TCMQ	1.1
52	TAML	Disulfoton	244713	296052	21	TAML	1.2
53	TBMQ	Dimethoate	167629	214325	28	TBMQ	0.24
54	TBML	Methyl Parathion	185318	204277	10	TBML	4.7
55	TAM	Malathion	173275	190066	9.7	TAM	
56	TBML	Chlorpyrifos	113482	49874	56	TBML	62 *
57	TAML	Parathion	131605	49874	62	TAML	72 *
58	TCML	Thiobencarb	113482	49874	56	TCML	62 *
59	TAML	Prowl	54967	72532	32	TAML	0.17
60	TCML	Cyanazine	131605	49874	62	TCML	72 *
61	TCML	Methidathion	149070	214011	44	TCML	3.5
62	SB	Triphenyl Phosphate	197612	224936	14	SB	
63	TCML	Phosmet	121672	135566	11	TCML	4.4
64	TBMQ	Azinphos Methyl	89873	121664	35	TBMQ	0.74
65							
66							
67							
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79							
80							

Average

28.2

EPA METHOD 8141A / 619
Organophosphorous Compounds

Raw Data



Method Blank

Triazines in Water

Blank Name/QCG: 110422W-35969 - 155626
Batch ID: #619AG-110422A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	ATRAZINE	Not detected	0.5	0.07	ug/L	4/22/2011	4/30/2011
BLANK	CYANAZINE	Not detected	0.5	0.09	ug/L	4/22/2011	4/30/2011
BLANK	SIMAZINE	Not detected	0.5	0.08	ug/L	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIBUTYLPHOSPHATE	85.2	62-145		%	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIPHENYLPHOSPHA	79.2	54-144		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429043
Instrument: Opie
Sequence: 110429
Initials: LA

GC SC-Blank-REG MDLs
Printed: 6/1/2011 2:20:35 PM

Method Blank
EPA 8141A LL Water

Blank Name/QCG: 110422W-35969 - 155625
Batch ID: #814AG-110422A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	AZINPHOSMETHYL	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
BLANK	CHLORPYRIFOS	Not detected	0.015	0.0026	ug/L	4/22/2011	4/30/2011
BLANK	DEMETON-S	Not detected	0.1	0.01	ug/L	4/22/2011	4/30/2011
BLANK	DIAZINON	Not detected	0.02	0.004	ug/L	4/22/2011	4/30/2011
BLANK	DICHLORVOS	Not detected	0.1	0.02	ug/L	4/22/2011	4/30/2011
BLANK	DIMETHOATE	Not detected	0.1	0.08	ug/L	4/22/2011	4/30/2011
BLANK	DISULFOTON	Not detected	0.05	0.020	ug/L	4/22/2011	4/30/2011
BLANK	MALATHION	Not detected	0.10	0.050	ug/L	4/22/2011	4/30/2011
BLANK	METHIDATHION	Not detected	0.1	0.04	ug/L	4/22/2011	4/30/2011
BLANK	PARATHION, METHYL	Not detected	0.10	0.075	ug/L	4/22/2011	4/30/2011
BLANK	PHORATE	Not detected	0.1	0.07	ug/L	4/22/2011	4/30/2011
BLANK	PHOSMET	Not detected	0.2	0.06	ug/L	4/22/2011	4/30/2011
BLANK	TRIFLURALIN	Not detected	0.05	0.036	ug/L	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIBUTYLPHOSPHATE	85.2	60-150		%	4/22/2011	4/30/2011
BLANK	SURROGATE: TRIPHENYLPHOSPHA	79.2	56-129		%	4/22/2011	4/30/2011

Quant Method: PEW0429.M
Run #: 0429043
Instrument: Opie
Sequence: 110429
Initials: LA

GC SC-Blank-REG MDLs
Printed: 6/1/2011 2:20:35 PM

Laboratory Control Spike Recovery Triazines in Water

APPL ID: 110422W-35969 LCS - 155626
Batch ID: #619AG-110422A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
ATRAZINE	2.50	1.96	78.4	39-156
CYANAZINE	5.00	3.15	63.0	22-172
SIMAZINE	2.50	1.95	78.0	21-179
<hr style="border-top: 1px dashed black;"/>				
SURROGATE: TRIBUTYLPHOSPHATE (	2.50	2.28	91.2	62-145
SURROGATE: TRIPHENYLPHOSPHATE	2.50	2.27	90.8	54-144
<hr style="border-top: 1px dashed black;"/>				

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	PEW0429.M
Extraction Date :	4/22/2011
Analysis Date :	4/30/2011
Instrument :	Ople
Run :	0429044
Initials :	LA

Printed: 6/1/2011 2:20:26 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8141A LL Water

APPL ID: 110422W-35969 LCS - 155625
 Batch ID: #814AG-110422A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
AZINPHOSMETHYL	2.50	1.99	79.6	36-189
CHLORPYRIFOS	5.00	4.57	91.4	61-125
DEMETON-S	0.750	0.452	60.3	40-125
DIAZINON	2.50	2.26	90.4	57-130
DICHLORVOS	2.50	1.71	68.4	10-175
DIMETHOATE	2.50	1.39	55.6 #	68-202
DISULFOTON	2.50	2.26	90.4	47-117
MALATHION	2.50	2.43	97.2	47-125
METHIDATHION	2.50	2.40	96.0	50-150
PARATHION, METHYL	2.50	2.08	83.2	55-164
PHORATE	2.50	2.46	98.4	44-117
PHOSMET	2.50	2.05	82.0	50-150
TRIFLURALIN	2.50	2.20	88.0	40-148
<hr style="border-top: 1px dashed black;"/>				
SURROGATE: TRIBUTYLPHOSPHATE (	2.50	2.28	91.2	60-150
SURROGATE: TRIPHENYLPHOSPHATE	2.50	2.27	90.8	56-129

= Recovery is outside QC limits.

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	PEW0429.M
Extraction Date :	4/22/2011
Analysis Date :	4/30/2011
Instrument :	Opie
Run :	0429044
Initials :	LA

Printed: 6/1/2011 2:20:26 PM

APPL Standard LCS

Matrix Spike Recoveries Triazines in Water

APPL ID: 110422W-35969 MS - 155626
 Batch ID: #619AG-110422A
 Sample ID: AY35969
 Client ID: 545XCCART-GR,MS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
ATRAZINE	2.50	ND	2.01	1.91	80.4	76.4	39-156	5.1	25
CYANAZINE	5.00	ND	3.20	3.10	64.0	62.0	22-172	3.2	25
SIMAZINE	2.50	ND	2.13	2.01	85.2	80.4	21-179	5.8	25
SURROGATE: TRIBUTYLPHOSPHATE (S	2.50	NA	2.46	2.31	98.4	92.4	62-145		
SURROGATE: TRIPHENYLPHOSPHATE	2.50	NA	2.25	2.18	90.0	87.2	54-144		

Comments:

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	PEW0429.M	PEW0429.M
Extraction Date :	4/22/2011	4/22/2011
Analysis Date :	4/30/2011	4/30/2011
Instrument :	Ople	Ople
Run :	0429053	0429054
Initials :	LA	

Printed: 6/1/2011 2:20:19 PM
 APPL MSD SCH

Matrix Spike Recoveries

EPA 8141A LL Water

APPL ID: 110422W-35969 MS - 155625
 Batch ID: #814AG-110422A
 Sample ID: AY35969
 Client ID: 545XCCART-GR,MS

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
AZINPHOSMETHYL	2.50	ND	2.10	2.04	84.0	81.6	36-189	2.9	25
CHLORPYRIFOS	5.00	ND	4.60	4.37	92.0	87.4	61-125	5.1	25
DEMETON-S	0.750	ND	0.555	0.501	74.0	66.8	40-125	10.2	25
DIAZINON	2.50	ND	2.35	2.28	94.0	91.2	57-130	3.0	25
DICHLORVOS	2.50	ND	1.79	1.69	71.6	67.6	10-175	5.7	25
DIMETHOATE	2.50	ND	2.00	1.85	80.0	74.0	68-202	7.8	25
DISULFOTON	2.50	ND	2.22	2.06	88.8	82.4	47-117	7.5	25
MALATHION	2.50	ND	2.55	2.37	102	94.8	47-125	7.3	25
METHIDATHION	2.50	ND	2.36	2.29	94.4	91.6	50-150	3.0	25
PARATHION, METHYL	2.50	ND	2.14	2.08	85.6	83.2	55-164	2.8	25
PHORATE	2.50	ND	2.40	2.24	96.0	89.6	44-117	6.9	25
PHOSMET	2.50	ND	2.18	2.08	87.2	83.2	50-150	4.7	25
TRIFLURALIN	2.50	ND	2.16	2.05	86.4	82.0	40-148	5.2	25
SURROGATE: TRIBUTYLPHOSPHATE (S	2.50	NA	2.46	2.31	98.4	92.4	60-150		
SURROGATE: TRIPHENYLPHOSPHATE	2.50	NA	2.25	2.18	90.0	87.2	56-129		

Comments:

Primary	SPK	DUP
Quant Method :	PEW0429.M	PEW0429.M
Extraction Date :	4/22/2011	4/22/2011
Analysis Date :	4/30/2011	4/30/2011
Instrument :	Opie	Opie
Run :	0429053	0429054
Initials :	LA	

Printed: 6/1/2011 2:20:18 PM
 APPL MSD SCH

Organic Extraction Worksheet

Method	OCL OP/Triazine Sep Funnel Low 3510C	Extraction Set	110422A	Extraction Method	SBP025	Units	mL
Spiked ID 1	OCL Water Spike 4/19/11 EX 7/19/11	Surrogate ID 1	OCL/OP Water Surrogate 4/6/11 EX 7/6/11				
Spiked ID 2	Pyrethroid Std. 12/20/10 EX 6/20/11	Surrogate ID 2					
Spiked ID 3	TOX Water Spike 1/25/11 EX 4/25/11	Surrogate ID 3					
Spiked ID 4	Pac Bco Cal Std. W/ Surr. 3/8/11 EX 6/15/11	Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
		GC Requires Extract By:		05/11/11 0:00			
		pH1				W Bath Temp 35 °C	
		pH2					
		pH3					

Spiked By: DL

Date 04/22/11

Witnessed By: CC

Date 04/22/11

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110422A Bk			0.2	1	1000	2	7	04/22/11 8:30	
2	110422A LCS-1	0.2	1	0.2	1	1000	2	7	04/22/11 8:30	
3	110422A LCS-2	0.2	2	0.2	1	1000	2	7	04/22/11 8:30	
4	110422A LCS-3	0.2	3	0.2	1	1000	2	7	04/22/11 8:30	
5	110422A LCS-4	0.5	4	NA	NA	1000	2	7	04/22/11 8:30	
6	AY35962 AY35962W04			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
7	AY35963 AY35963W04			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
8	AY35964 AY35964W02			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
9	AY35965 AY35965W05			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
10	AY35966 AY35966W04			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
11	AY35967 AY35967W04			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
12	AY35968 AY35968W05			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
13	AY35969 MS-1 AY35969W06	0.2	1	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
14	AY35969 MSD-1 AY35969W06	0.2	1	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
15	AY35969 MS-2 AY35969W06	0.2	2	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
16	AY35969 MSD-2 AY35969W06	0.2	2	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
17	AY35969 AY35969W02			0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
18	AY35969 MS-3 AY35969W08	0.2	3	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
19	AY35969 MS-4 AY35969W08	0.5	4	NA	NA	1000	2	7	04/22/11 8:30	64443 -- Other
20	AY35969 MSD-3 AY35969W08	0.2	3	0.2	1	1000	2	7	04/22/11 8:30	64443 -- Other
21	AY35969 MSD-4 AY35969W08	0.5	4	NA	NA	1000	2	7	04/22/11 8:30	64443 -- Other

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
Hexane	VWR 071210D

Extraction COC Transfer	
Extraction lab employee Initials	CC
GC analyst's initials	<i>[Signature]</i>
Date	4/27/11
Time	11:20
Refrigerator	153A05

Technician's Initials	
Scanned By	JL
Sample Preparation	CC
Extraction	CC JL DL
Concentration	GH
Modified	04/22/11 10:37:28 AM

Reviewed By: CC Administrative Record Date: 04/22/11

Organic Extraction Worksheet

Method	OCL/OP/Triazine Sep Funnel Low 3510C	Extraction Set	110422A	Extraction Method	SEP025	Units	mL
Spiked ID 1	OCL Water Spike 4/19/11 BX 7/19/11	Surrogate ID 1	OCL/OP Water Surrogate 4/6/11 BX 7/6/11				
Spiked ID 2	Pyrethroid Std. 12/20/10 BX 6/20/11	Surrogate ID 2					
Spiked ID 3	TOX Water Spike 1/25/11 BX 4/25/11	Surrogate ID 3					
Spiked ID 4	Pac Eco Cal Std. W/ Surr. 3/8/11 BX 6/15/11	Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:	YBS				
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
		GC Requires Extract By:	05/11/11 0:00				
		pH1				W Bath Temp	35 °C
		pH2					
		pH3					

Spiked By: DL

Date 04/22/11

Witnessed By: CC

Date 04/22/11

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
22	AY35970	AY35970W02		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
23	AY35971	AY35971W05		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
24	AY35972	AY35972W05		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
25	AY35973	AY35973W03		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
26	AY35974	AY35974W04		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
27	AY35975	AY35975W02		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
28	AY35976	AY35976W02		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter
29	AY35977	AY35977W02		0.2	1	1050	2	7	04/22/11 8:30	64443 -- Amber Liter

CC 4/22/11

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
Hexane	VWR 071210D

Extraction COC Transfer	
Extraction lab employee Initials	CC
GC analyst's initials	<i>[Signature]</i>
Date	4/22/11
Time	11:20
Refrigerator	HUBAAT

Technician's Initials	JL
Scanned By	CC
Sample Preparation	CC JL DL
Extraction	GH
Concentration	
Modified	04/22/11 10:37:28 AM

Reviewed By: CC Administrative Review Date: 04/22/11

Injection Log

Directory: G:\OPIE\DATA\110429

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	27	0429027.D	1	PAC ECO 2/1000 4/29/11	WATER	4-30-11 2:13:59
2	28	0429028.D	1	PAC ECO 10/1000	WATER	4-30-11 2:43:48
3	29	0429029.D	1	PAC ECO 50/1000	WATER	4-30-11 3:13:45
4	30	0429030.D	1	PAC ECO 200/1000	WATER	4-30-11 3:43:35
5	31	0429031.D	1	PAC ECO 500/1000	WATER	4-30-11 4:13:23
6	32	0429032.D	1	PAC ECO 700/1000	WATER	4-30-11 4:43:11
7	33	0429033.D	1	PAC ECO 1000/1000	WATER	4-30-11 5:12:59
8	42	0429042.D	1	PAC ECO 500/1000 4/29/11	WATER	4-30-11 9:41:41
9	43	0429043.D	2	110422A BLK 2/1000	WATER	4-30-11 10:11:35
10	44	0429044.D	2	110422A LCS-4 2/1000	WATER	4-30-11 10:41:36
11	45	0429045.D	1.90476	AY35962W04 2/1050	WATER	4-30-11 11:11:30
12	46	0429046.D	1.90476	AY35963W04 2/1050	WATER	4-30-11 11:41:33
13	47	0429047.D	1.90476	AY35964W02 2/1050	WATER	4-30-11 12:11:30
14	48	0429048.D	1.90476	AY35965W05 2/1050	WATER	4-30-11 12:41:26
15	49	0429049.D	1.90476	AY35966W04 2/1050	WATER	4-30-11 13:11:22
16	50	0429050.D	1.90476	AY35967W04 2/1050	WATER	4-30-11 13:41:20
17	51	0429051.D	1.90476	AY35968W05 2/1050	WATER	4-30-11 14:11:20
18	52	0429052.D	1.90476	AY35969W02 2/1050	WATER	4-30-11 14:41:19
19	53	0429053.D	2	AY35969W08 MS-4 2/1000	WATER	4-30-11 15:11:25
20	54	0429054.D	2	AY35969W08 MSD-4 2/1000	WATER	4-30-11 15:41:24
21	55	0429055.D	1	PAC ECO 500/1000 4/29/11	WATER	4-30-11 16:11:26
22	56	0429056.D	1.90476	AY35970W02 2/1050	WATER	4-30-11 16:41:25
23	57	0429057.D	1.90476	AY35971W05 2/1050	WATER	4-30-11 17:11:25
24	58	0429058.D	1.90476	AY35972W05 2/1050	WATER	4-30-11 17:41:23
25	59	0429059.D	1.90476	AY35973W03 2/1050	WATER	4-30-11 18:11:23
26	60	0429060.D	1.90476	AY35974W04 2/1050	WATER	4-30-11 18:41:21
27	61	0429061.D	1.90476	AY35975W02 2/1050	WATER	4-30-11 19:11:20
28	62	0429062.D	1.90476	AY35976W02 2/1050	WATER	4-30-11 19:41:24
29	63	0429063.D	1.90476	AY35977W02 2/1050	WATER	4-30-11 20:11:23
30	64	0429064.D	1	PAC ECO 500/1000 4/29/11	WATER	4-30-11 20:41:24