



Department of Pesticide Regulation



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MEMORANDUM

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SUBJECT: METHYL BROMIDE AIR MONITORING RESULTS FOR 2012

INTRODUCTION

In August 2011, the California Department of Pesticide Regulation (DPR) and the U.S. Environmental Protection Agency (U.S. EPA) entered into an Agreement to resolve a civil rights complaint filed under Title VI of the Civil Rights Act of 1964 (Title VI). Title VI prohibits intentional discrimination and discriminatory effects on the basis of race, color, and national origin by recipients of federal financial assistance. The complaint alleged that DPR's annual registration renewal of methyl bromide in 1999 discriminated against Latino school children. While DPR disagreed with the allegations made in the complaint, it agreed to take certain actions set forth in the Agreement in order to resolve the matter.

One provision of the Agreement requires DPR to expand on-going monitoring of methyl bromide air concentrations and to share these monitoring results with U.S. EPA and the public on an annual basis. The methyl bromide monitoring specified in the Agreement is a continuation and expansion of two projects, one by DPR and one by the California Air Resources Board (ARB). Starting in February 2011, DPR implemented a statewide Air Monitoring Network for measuring pesticides in air for various rural agricultural communities. DPR collected one set of 24-hour weekly air samples from three California communities (Salinas, Shafter, and Ripon) to monitor for 34 pesticides and 4 pesticide breakdown products, including methyl bromide. At the request of DPR, ARB began monitoring for several fumigant pesticides in 2010 at two communities (Camarillo/Oxnard and Santa Maria). Methyl bromide was among the compounds collected once every six days for a 15-month study starting August 10, 2010 and was scheduled



Christopher Reardon
July 29, 2013
Page 2

to end on October 30, 2011. Under the Agreement, methyl bromide monitoring will continue in all five communities until the end of 2013. Additionally, DPR and ARB began monitoring near Watsonville in January 2012; methyl bromide monitoring will continue until the end of 2013 in this location as well.

Prior to the Agreement, the primary objective of the methyl bromide monitoring was to measure the effectiveness of the regulatory restrictions implemented by DPR and county agricultural commissioners. Methyl bromide use restrictions to protect bystanders and workers include application method requirements, buffer zones around fumigated fields, and regional use limits (township caps). Camarillo/Oxnard, Salinas, Santa Maria, and Watsonville are among the highest use areas for methyl bromide and are appropriate locations for measuring the effectiveness of the restrictions.

This is the second yearly memorandum on methyl bromide monitoring as part of the Agreement and it reports methyl bromide monitoring results from all six sampling locations (Salinas, Shafter, Ripon, Camarillo/Oxnard, Santa Maria, and Watsonville) for the 2012 calendar year. This report also compares the 2012 monitoring results with the monitoring results from the 2011 calendar year. Pesticide use data for 2012 and other information are not available, so comparisons, correlations, or modeling with methyl bromide applications are not possible at this time.

MATERIALS AND METHODS

The following summarizes the sampling and analysis procedures. More detailed descriptions are given in the monitoring protocols available at:

<http://www.cdpr.ca.gov/docs/emon/airinit/air_network.htm>

<http://www.cdpr.ca.gov/docs/emon/pubs/tac/tacpdfs/2011_ambient_protocol_final.pdf>.

Sampling Locations (Figure 1)

DPR's Air Monitoring Network includes one site in each of three communities: Ripon, Salinas, and Shafter. Salinas is an area of high methyl bromide use. Ripon and Shafter are areas with high use of other pesticides included in the monitoring, but not methyl bromide. ARB's monitoring includes one site in each of three communities: Camarillo/Oxnard, Santa Maria, and Watsonville. All three of these areas have historically high use of methyl bromide.



Figure 1. Map showing all six sampling locations.

Sample Collection

Air samples collected as part of the Air Monitoring Network (AMN) were collected using SilcoCan® canisters (Restek cat. no. 24142-65) with a flow controller set to collect 24-hour weekly samples. Air sampler flow rates were measured using a DryCal® flow meter at the beginning of the sampling period and the end of the sampling period. The weekly starting day varied through the week and was randomly selected. Actual start times were left to the discretion of the specific sampling personnel assigned for each location.

Air samples collected by ARB personnel as part the 2012 DPR pesticide study were collected using a Tisch Environmental 3-Channel Canister Sampler. The sampler was automated to collect a 24-hour air sample into a SilcoCan® canister (Restek cat. no. 24142-65) once every six days. Sample collection would commence at 00:01 and would automatically be terminated at 23:59 of the sampling day.

Analytical Methods

Air samples collected as part of the AMN were processed by the California Department of Food and Agriculture (CDFA), Center for Analytical Chemistry Laboratory. Air canisters were analyzed for volatile organic compounds using a method similar to U.S. EPA's method TO-15.

Air samples collected as part of the 2010 DPR pesticide study were processed by the ARB Organics Laboratory Section (OLS) of the Northern Laboratory Branch. Air canisters were analyzed for volatile organic compounds using OLS Method MLD058. Method MLD058 is a gas chromatographic method utilizing an Automated Sample Concentrator, capillary gas chromatography, and Ion Trap Mass Spectrometry.

Method Detection Limit and Reporting Limit

The method detection limit (MDL) is the lowest concentration of a pesticide (analyte) that a chemical method can reliably detect. The laboratory determined the method detection limit for each analyte by analyzing a standard at a concentration with a signal to noise ratio of 2.5 to 5. Since air samples are being analyzed by two different laboratories with different sample methods and instruments, each lab had different MDLs which are listed in Table 1.

Table 1. Method Detections Limits for methyl bromide.

| Laboratory | Method Detection Limit (ppb) |
|-------------------|-------------------------------------|
| CDFA | 0.10 |
| ARB-OLS | 0.03 |

Health Evaluation Methods

DPR compares measured ambient air concentrations to human health screening levels to determine what, if any, action to take. No state or federal agency has established regulatory health standards for pesticides in ambient air (some agencies have developed occupational

standards, or site-specific standards). Therefore, DPR in consultation with the California Office of Environmental Health Hazard Assessment and others has developed health screening levels for monitored pesticides to place the results in a health based context. Although not regulatory standards, these screening levels can be used in the process of evaluating the air monitoring results. A measured air level that is below the screening level for a given pesticide would generally not be considered to represent a significant health concern and would not generally undergo further evaluation, but also should not automatically be considered “safe”, it could undergo further evaluation. By the same token, a measured level that is above the screening level would not necessarily indicate a significant health concern, but would indicate the need for a further and more refined evaluation. Significant exceedances of the screening levels could be of health concern and would indicate the need to explore the imposition of mitigation measures.

DPR primarily uses screening levels for pesticides for which it has not completed a comprehensive health evaluation (risk assessment). For methyl bromide, DPR has completed a peer-reviewed risk assessment, as well as revised the legal requirements for the use of methyl bromide to reduce exposures and achieve specific target air concentrations. DPR’s methyl bromide regulatory target concentration for acute exposure (average air concentration for one day) is 210 parts per billion (ppb). DPR’s regulatory target concentration for subchronic exposure (average air concentration for one month) is 5 ppb. DPR has not established a regulatory target concentration for chronic exposure, but the screening level (average air concentration for one year) derived from the risk assessment is 1 ppb.

Invalid Samples

A total of seven air samples of the 379 collected were invalid. Six samples taken from the Watsonville sampling location were invalid due to an ending pressure outside of the accepted criteria or due to sampling time being outside of the accepted time frame. One sample taken from the Camarillo sampling location was invalid due to an ending pressure outside of the accepted criteria. Table 2 lists the invalid samples for the 2012 sampling year.

Table 2. Invalid samples: Detections of methyl bromide by sampling location.

| Sample ID | Site Location | Sampling Date | Comments/Reason for invalid status |
|-----------|------------------|---------------|--|
| TX011429 | Watsonville | 2/3/2012 | Invalid – Canister Received at Zero Pressure |
| TX011461 | Camarillo/Oxnard | 2/15/2012 | Invalid – Canister Received at Zero Pressure |
| TX011462 | Watsonville | 2/15/2012 | Invalid – Sampling Time out of Range: >25 |
| TX011499 | Watsonville | 3/4/2012 | Invalid – Canister Received at Zero Pressure |
| TX011525 | Watsonville | 3/11/2012 | Invalid – Sampling Time out of Range: >25 |
| TX011970 | Watsonville | 9/24/2012 | Invalid – Sampling Time out of Range: <23 |
| TX012088 | Watsonville | 11/23/2012 | Invalid – Canister Received at Zero Pressure |

RESULTS

Laboratory matrix spikes and matrix blanks were included with every set of samples extracted and analyzed at the laboratory and are part of the laboratory quality control program. The matrix spikes are conducted to assess accuracy and precision; the blanks are to check for contamination at the laboratory. Methyl bromide recovery in the CDFA matrix spike samples was 94.8% on average and 100.8% on average for samples analyzed by ARB's OLS laboratory. None of the lab matrix blank samples showed any methyl bromide concentrations. Co-located duplicate air canister samples were collected as part of the quality control process, with absolute percent differences ranging from 0% to 44.1% for all samples. Field matrix spikes, due to CDFA's lack of method availability, were only analyzed by ARB's OLS laboratory for samples collected from Camarillo, Santa Maria, and Watsonville. An overall field matrix spike sample recovery of 100.8% for all three sampling sites was attained.

A total of 369 samples were collected from all six sampling locations for the 2012 calendar year. The Camarillo/Oxnard, Santa Maria, and Watsonville sampling locations were part of the pesticide study conducted by ARB while the Salinas, Shafter, and Ripon sampling locations were part of the AMN. Samples from all six sites were collected from January 1, 2012 – December 31, 2012.

Of the 369 samples, 289 (78.3%) contained no detectable amount and were below the LOQ (limit of quantification; i.e., not quantifiable). Of the 369 samples, 80 (21.7%) contained detections above the LOQ (quantifiable). Table 3 lists the number of detections for each sampling location.

Table 3. Detections of methyl bromide by sampling location.

| Location | Number of possible detections | Total number of quantifiable detections | Percent of quantifiable detections (%) |
|------------------|-------------------------------|---|--|
| Watsonville | 69 | 26 | 37.7 |
| Santa Maria | 73 | 25 | 34.2 |
| Camarillo/Oxnard | 71 | 19 | 26.8 |
| Ripon | 52 | 4 | 7.7 |
| Salinas | 52 | 4 | 7.7 |
| Shafter | 52 | 2 | 3.8 |

Table 4 contains yearly comparisons for five air sampling locations (air samples were first collected from Watsonville on January 1, 2012). Four sampling locations (Ripon, Salinas, Camarillo, and Shafter) experienced a 55% or greater decrease in quantifiable detections in 2012 compared to 2011. Santa Maria had the lowest yearly percentage difference of -26.0%.

Table 4. Comparisons of detections of methyl bromide by sampling location and year.

| Location | 2011 | | 2012 | | Yearly Difference (%) |
|-------------|---------------------|---|---------------------|---|-----------------------|
| | Possible detections | Percentage of Quantifiable detections (%) | Possible detections | Percentage of Quantifiable detections (%) | |
| | 60 | 61.7 | 71 | 26.8 | -56.6 |
| Ripon | 46 | 19.6 | 52 | 7.7 | -60.7 |
| Salinas | 48 | 18.9 | 52 | 7.7 | -59.0 |
| Santa Maria | 67 | 46.3 | 73 | 34.2 | -26.0 |
| Shafter | 47 | 8.5 | 52 | 3.8 | -54.8 |
| Watsonville | NA | NA | 69 | 37.7 | ----- |

Acute exposure: Table 5 presents the highest one-day concentration at all six sampling locations. The highest 1-day concentration detected for methyl bromide in 2012 was 3.40 ppb at Camarillo. This concentration was approximately 100 times below the acute regulatory target concentration of 210 ppb established by DPR. Figure 2 shows the one-day methyl bromide concentrations from all six sampling locations as a time series for sampling years 2011 and 2012. The highest air concentrations detected occur from July to November, with maximum concentrations occurring in September for 2011 and July for 2012.

Table 5. Highest one-day concentration of methyl bromide by sampling location for calendar year 2012.

| Location | Highest 1-day concentration (ppb) | Acute Regulatory Target (ppb) |
|------------------|-----------------------------------|-------------------------------|
| Camarillo/Oxnard | 3.40 | 210 |
| Watsonville | 1.50 | 210 |
| Santa Maria | 0.77 | 210 |
| Ripon | 0.69 | 210 |
| Salinas | 0.65 | 210 |
| Shafter | 0.55 | 210 |

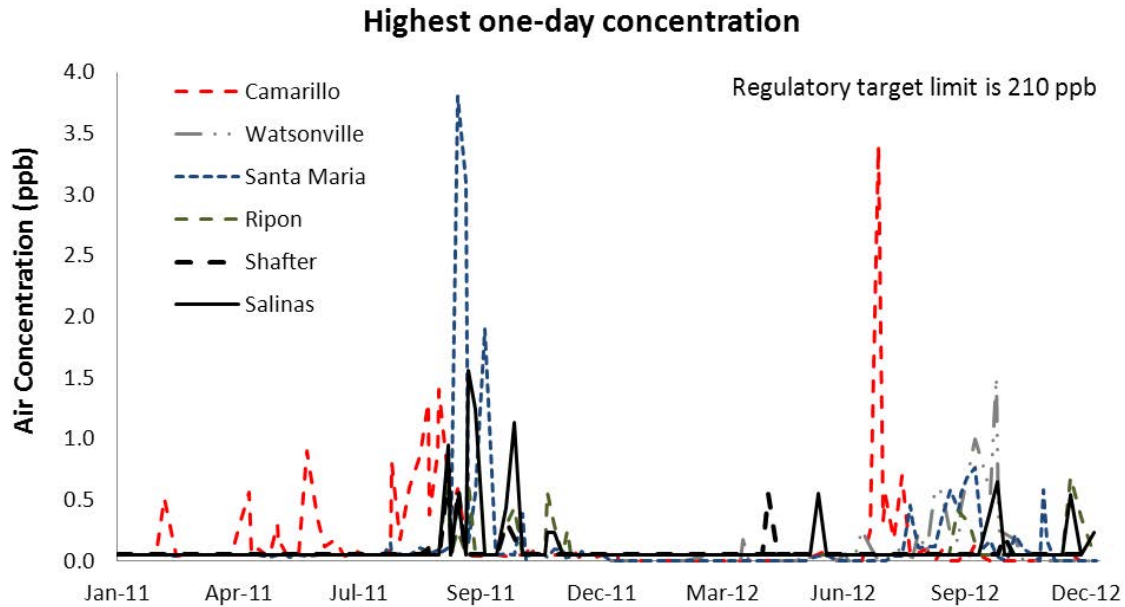


Figure 2. Highest one-day (acute) concentrations of methyl bromide detected for the six monitoring locations for calendar year 2012.

Yearly change of values of highest 1-day concentrations for all six locations are listed on Table 6. Highest 1-day methyl bromide concentrations in four of the six locations were lower in 2012 than in 2011.

Table 6. Comparisons of detections of methyl bromide by sampling location.

| Location | 2011 | 2012 |
|------------------|-----------------------------------|-----------------------------------|
| | Highest 1-day concentration (ppb) | Highest 1-day concentration (ppb) |
| Camarillo/Oxnard | 1.40 | 3.40 |
| Watsonville | NA | 1.50 |
| Santa Maria | 3.80 | 0.77 |
| Ripon | 0.76 | 0.69 |
| Salinas | 1.56 | 0.65 |
| Shafter | 0.76 | 0.55 |

Subchronic exposure: Table 7 shows the highest 4-week average concentrations for methyl bromide at all six sampling locations. The highest 4-week rolling average concentration was found in Watsonville with a concentration of 0.85 ppb. No methyl bromide 4-week rolling average concentrations from any sampling location exceeded the regulatory target concentration

for the subchronic exposure (4-week) periods. Figure 3 presents the highest 4-week concentrations measured in all six sampling locations as a time series for sampling years 2011 and 2012, compared with the subchronic target concentration of 5 ppb. The 4-week rolling average concentrations were calculated using one-half the MDL for samples with no detectable amount, and a value halfway between the MDL and the LOQ for samples with trace (unquantifiable) concentrations. Four-week rolling average concentrations refers to the average of a moving 4-week period (i.e., average of weeks 1, 2, 3, and 4; average of weeks 2, 3, 4, and 5, etc.).

Table 7. The highest of rolling 4-week methyl bromide concentrations by sampling location.

| Location | Highest 4-week rolling concentration (ppb) | Subchronic Regulatory Target (ppb) |
|------------------|---|---|
| Watsonville | 0.85 | 5 |
| Camarillo/Oxnard | 0.78 | 5 |
| Santa Maria | 0.50 | 5 |
| Ripon | 0.29 | 5 |
| Salinas | 0.28 | 5 |
| Shafter | 0.18 | 5 |

Yearly change of 4-week rolling concentrations for all six locations are listed on Table 8. All five sampling locations with sampling results for both years had lower peak concentrations in 2012 compared to 2011.

Table 8. Comparisons of detections of methyl bromide by sampling location and year.

| Location | 2011 Highest 4-week rolling concentration (ppb) | 2012 Highest 4-week rolling concentration (ppb) |
|------------------|--|--|
| Camarillo/Oxnard | 0.87 | 0.78 |
| Ripon | 0.43 | 0.29 |
| Salinas | 1.06 | 0.28 |
| Santa Maria | 1.62 | 0.50 |
| Shafter | 0.36 | 0.18 |
| Watsonville | NA | 0.85 |

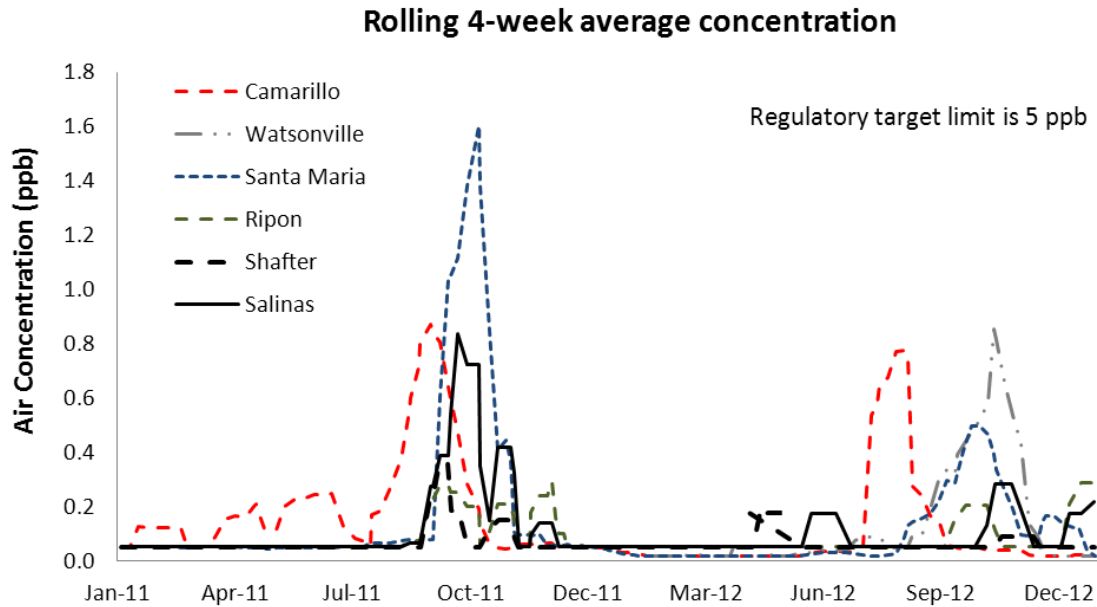


Figure 3. Rolling 4-week average (subchronic) concentrations of methyl bromide detected for the five monitoring locations. Concentrations are presented as rolling or moving averages (i.e., average of weeks 1, 2, 3, and 4; average of weeks 2, 3, 4, and 5, etc.).

Chronic exposure: Table 9 shows methyl bromide’s 1-year average concentrations for all sampling locations. No locations exceeded the screening levels for the chronic exposure period. The highest overall average concentration measured was 0.13 ppb at Watsonville. Camarillo had the second highest 1-year average concentration of 0.10 ppb.

Table 9. 1-year overall average air concentrations by sampling location.

| Location | 1-year overall average concentration (ppb) | Chronic Screening Level (ppb) |
|------------------|--|-------------------------------|
| Watsonville | 0.13 | 1 |
| Camarillo/Oxnard | 0.10 | 1 |
| Santa Maria | 0.09 | 1 |
| Salinas | 0.09 | 1 |
| Ripon | 0.08 | 1 |
| Shafter | 0.06 | 1 |

All five sampling locations (Camarillo, Ripon, Santa Maria, Salinas, and Shafter) that had sampling results for both 2011 and 2012 years all had lower yearly average concentrations in 2012 compared to 2011 (Table 10).

Table 10. Comparisons of detections of methyl bromide by sampling location.

| Location | 2011 1-year overall average concentration (ppb) | 2012 1-year overall average concentration (ppb) |
|------------------|--|--|
| Camarillo/Oxnard | 0.23 | 0.10 |
| Ripon | 0.17 | 0.08 |
| Salinas | 0.26 | 0.09 |
| Santa Maria | 0.20 | 0.09 |
| Shafter | 0.11 | 0.06 |
| Watsonville | NA | 0.13 |

DISCUSSION AND CONCLUSIONS

For 2012, all measured air concentrations were less than DPR's regulatory targets or screening level, indicating that the restrictions on use of methyl bromide are keeping air concentrations below the health protective targets set by DPR. The 2012 concentrations were generally lower than those concentrations detected for the same time periods in 2011. The time periods and communities with higher concentrations are consistent with historical use patterns.

APPENDIX A
RESULTS OF INDIVIDUAL SAMPLES FOR 2012

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Salinas | A00329 | 01/03/12 | 01/04/12 | ND | 0.1 |
| Salinas | A00335 | 01/09/12 | 01/10/12 | ND | 0.1 |
| Salinas | A00341 | 01/19/12 | 01/20/12 | ND | 0.1 |
| Salinas | A00347 | 01/25/12 | 01/26/12 | ND | 0.1 |
| Salinas | A00348 | 01/29/12 | 01/30/12 | ND | 0.1 |
| Salinas | A00359 | 02/07/12 | 02/08/12 | ND | 0.1 |
| Salinas | A00362 | 02/12/12 | 02/13/12 | ND | 0.1 |
| Salinas | A00366 | 02/22/12 | 02/23/12 | ND | 0.1 |
| Salinas | A00375 | 02/28/12 | 02/29/12 | ND | 0.1 |
| Salinas | A00385 | 03/08/12 | 03/09/12 | ND | 0.1 |
| Salinas | A00391 | 03/12/12 | 03/13/12 | ND | 0.1 |
| Salinas | A00392 | 03/20/12 | 03/21/12 | ND | 0.1 |
| Salinas | A00404 | 03/26/12 | 03/27/12 | ND | 0.1 |
| Salinas | A00405 | 04/02/12 | 04/03/12 | ND | 0.1 |
| Salinas | A00418 | 04/08/12 | 04/09/12 | ND | 0.1 |
| Salinas | A00420 | 04/19/12 | 04/20/12 | ND | 0.1 |
| Salinas | A00426 | 04/25/12 | 04/26/12 | ND | 0.1 |
| Salinas | A00440 | 04/30/12 | 05/01/12 | ND | 0.1 |
| Salinas | A00441 | 05/07/12 | 05/08/12 | ND | 0.1 |
| Salinas | A00456 | 05/14/12 | 05/15/12 | ND | 0.1 |
| Salinas | A00463 | 04/23/12 | 04/24/12 | ND | 0.1 |
| Salinas | A00470 | 05/31/12 | 06/01/12 | ND | 0.1 |
| Salinas | A00471 | 06/06/12 | 06/07/12 | 0.554 | 0.1 |
| Salinas | A00479 | 06/12/12 | 06/13/12 | ND | 0.1 |
| Salinas | A00494 | 06/18/12 | 06/19/12 | ND | 0.1 |
| Salinas | A00497 | 06/24/12 | 06/25/12 | ND | 0.1 |
| Salinas | A00507 | 07/05/12 | 07/06/12 | ND | 0.1 |
| Salinas | A00512 | 07/10/12 | 07/11/12 | ND | 0.1 |
| Salinas | A00521 | 07/18/12 | 07/19/12 | ND | 0.1 |
| Salinas | A00529 | 07/23/12 | 07/24/12 | ND | 0.1 |
| Salinas | A00541 | 07/30/12 | 07/31/12 | ND | 0.1 |
| Salinas | A00542 | 08/06/12 | 08/07/12 | ND | 0.1 |
| Salinas | A00549 | 08/12/12 | 08/13/12 | ND | 0.1 |
| Salinas | A00564 | 08/24/12 | 08/25/12 | ND | 0.1 |
| Salinas | A00565 | 08/29/12 | 08/30/12 | ND | 0.1 |
| Salinas | A00572 | 09/05/12 | 09/06/12 | ND | 0.1 |
| Salinas | A00586 | 09/11/12 | 09/12/12 | ND | 0.1 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Salinas | A00593 | 09/17/12 | 09/18/12 | ND | 0.1 |
| Salinas | A00602 | 09/26/12 | 09/27/12 | ND | 0.1 |
| Salinas | A00603 | 10/03/12 | 10/04/12 | ND | 0.1 |
| Salinas | A00610 | 10/11/12 | 10/12/12 | 0.378 | 0.1 |
| Salinas | A00617 | 10/17/12 | 10/18/12 | 0.651 | 0.1 |
| Salinas | A00624 | 10/22/12 | 10/23/12 | ND | 0.1 |
| Salinas | A00610 | 10/29/12 | 10/30/12 | ND | 0.1 |
| Salinas | A00610 | 11/04/12 | 11/05/12 | ND | 0.1 |
| Salinas | A00647 | 11/14/12 | 11/15/12 | ND | 0.1 |
| Salinas | A00655 | 11/19/12 | 11/20/12 | ND | 0.1 |
| Salinas | A00663 | 11/29/12 | 11/30/12 | ND | 0.1 |
| Salinas | A00675 | 12/04/12 | 12/05/12 | ND | 0.1 |
| Salinas | A00676 | 12/10/12 | 12/11/12 | 0.54 | 0.1 |
| Salinas | A00690 | 12/18/12 | 12/19/12 | ND | 0.1 |
| Salinas | A00698 | 12/28/12 | 12/29/12 | 0.229 | 0.1 |
| Shafter | B00306 | 01/04/12 | 01/05/12 | ND | 0.1 |
| Shafter | B00313 | 01/12/12 | 01/13/12 | ND | 0.1 |
| Shafter | B00320 | 01/17/12 | 01/18/12 | ND | 0.1 |
| Shafter | B00326 | 01/23/12 | 01/24/12 | ND | 0.1 |
| Shafter | B00333 | 02/01/12 | 02/02/12 | ND | 0.1 |
| Shafter | B00340 | 02/09/12 | 02/10/12 | ND | 0.1 |
| Shafter | B00358 | 02/13/12 | 02/14/12 | ND | 0.1 |
| Shafter | B00364 | 02/22/12 | 02/23/12 | ND | 0.1 |
| Shafter | B00370 | 02/27/12 | 02/28/12 | ND | 0.1 |
| Shafter | B00376 | 03/07/12 | 03/08/12 | ND | 0.1 |
| Shafter | B00382 | 03/12/12 | 03/13/12 | ND | 0.1 |
| Shafter | B00390 | 03/21/12 | 03/22/12 | ND | 0.1 |
| Shafter | B00396 | 03/27/12 | 03/28/12 | ND | 0.1 |
| Shafter | B00403 | 04/04/12 | 04/05/12 | ND | 0.1 |
| Shafter | B00410 | 04/10/12 | 04/11/12 | ND | 0.1 |
| Shafter | B00417 | 04/19/12 | 04/20/12 | ND | 0.1 |
| Shafter | B00425 | 04/23/12 | 04/24/12 | ND | 0.1 |
| Shafter | B00432 | 05/01/12 | 05/02/12 | 0.55 | 0.1 |
| Shafter | B00439 | 05/08/12 | 05/09/12 | ND | 0.1 |
| Shafter | B00446 | 05/17/12 | 05/18/12 | ND | 0.1 |
| Shafter | B00453 | 05/24/12 | 05/25/12 | ND | 0.1 |
| Shafter | B00460 | 05/30/12 | 05/31/12 | ND | 0.1 |
| Shafter | B00468 | 06/05/12 | 06/06/12 | ND | 0.1 |
| Shafter | B00476 | 06/13/12 | 06/14/12 | ND | 0.1 |
| Shafter | B00483 | 06/18/12 | 06/19/12 | ND | 0.1 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Shafter | B00489 | 06/27/12 | 06/28/12 | ND | 0.1 |
| Shafter | B00499 | 07/02/12 | 07/03/12 | ND | 0.1 |
| Shafter | B00507 | 07/12/12 | 07/13/12 | ND | 0.1 |
| Shafter | B00515 | 07/17/12 | 07/18/12 | ND | 0.1 |
| Shafter | B00522 | 07/24/12 | 07/25/12 | ND | 0.1 |
| Shafter | B00600 | 08/01/12 | 08/02/12 | ND | 0.1 |
| Shafter | B00530 | 08/09/12 | 08/10/12 | ND | 0.1 |
| Shafter | B00538 | 08/13/12 | 08/14/12 | ND | 0.1 |
| Shafter | B00546 | 08/21/12 | 08/22/12 | ND | 0.1 |
| Shafter | B00553 | 08/29/12 | 08/30/12 | ND | 0.1 |
| Shafter | B00560 | 09/06/12 | 09/07/12 | ND | 0.1 |
| Shafter | B00567 | 09/10/12 | 09/11/12 | ND | 0.1 |
| Shafter | B00575 | 09/19/12 | 09/20/12 | ND | 0.1 |
| Shafter | B00583 | 09/25/12 | 09/26/12 | ND | 0.1 |
| Shafter | B00608 | 10/08/12 | 10/09/12 | ND | 0.1 |
| Shafter | B00590 | 10/10/12 | 10/11/12 | ND | 0.1 |
| Shafter | B00623 | 10/23/12 | 10/24/12 | ND | 0.1 |
| Shafter | B00616 | 10/15/12 | 10/16/12 | 0.21 | 0.1 |
| Shafter | B00631 | 10/30/12 | 10/31/12 | ND | 0.1 |
| Shafter | B00638 | 11/05/12 | 11/06/12 | ND | 0.1 |
| Shafter | B00647 | 11/14/12 | 11/15/12 | ND | 0.1 |
| Shafter | B00654 | 11/19/12 | 11/20/12 | ND | 0.1 |
| Shafter | B00661 | 11/27/12 | 11/28/12 | ND | 0.1 |
| Shafter | B00668 | 12/03/12 | 12/04/12 | ND | 0.1 |
| Shafter | B00677 | 12/12/12 | 12/13/12 | ND | 0.1 |
| Shafter | B00684 | 12/17/12 | 12/18/12 | ND | 0.1 |
| Shafter | B00691 | 12/26/12 | 12/27/12 | ND | 0.1 |
| Ripon | C00315 | 01/05/12 | 01/06/12 | ND | 0.1 |
| Ripon | C00316 | 01/09/12 | 01/10/12 | ND | 0.1 |
| Ripon | C00327 | 01/18/12 | 01/19/12 | ND | 0.1 |
| Ripon | C00335 | 01/23/12 | 01/24/12 | ND | 0.1 |
| Ripon | C00336 | 02/02/12 | 02/03/12 | ND | 0.1 |
| Ripon | C00342 | 02/06/12 | 02/07/12 | ND | 0.1 |
| Ripon | C00355 | 02/15/12 | 02/16/12 | ND | 0.1 |
| Ripon | C00361 | 02/21/12 | 02/22/12 | ND | 0.1 |
| Ripon | C00367 | 02/28/12 | 02/29/12 | ND | 0.1 |
| Ripon | C00374 | 03/05/12 | 03/06/12 | ND | 0.1 |
| Ripon | C00375 | 03/15/12 | 03/16/12 | ND | 0.1 |
| Ripon | C00384 | 03/19/12 | 03/20/12 | ND | 0.1 |
| Ripon | C00388 | 03/28/12 | 03/29/12 | ND | 0.1 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Ripon | C00402 | 04/02/12 | 04/03/12 | ND | 0.1 |
| Ripon | C00404 | 04/11/12 | 04/12/12 | ND | 0.1 |
| Ripon | C00412 | 04/15/12 | 04/16/12 | ND | 0.1 |
| Ripon | C00426 | 04/24/12 | 04/25/12 | ND | 0.1 |
| Ripon | C00432 | 05/02/12 | 05/03/12 | ND | 0.1 |
| Ripon | C00442 | 05/10/12 | 05/11/12 | ND | 0.1 |
| Ripon | C00450 | 05/15/12 | 05/16/12 | ND | 0.1 |
| Ripon | C00457 | 05/23/12 | 05/24/12 | ND | 0.1 |
| Ripon | C00458 | 05/29/12 | 05/30/12 | ND | 0.1 |
| Ripon | C00471 | 06/06/12 | 06/07/12 | ND | 0.1 |
| Ripon | C00472 | 06/14/12 | 06/15/12 | ND | 0.1 |
| Ripon | C00487 | 06/20/12 | 06/21/12 | ND | 0.1 |
| Ripon | C00492 | 06/27/12 | 06/28/12 | ND | 0.1 |
| Ripon | C00499 | 07/06/12 | 07/07/12 | ND | 0.1 |
| Ripon | C00502 | 07/09/12 | 07/10/12 | ND | 0.1 |
| Ripon | C00518 | 07/18/12 | 07/19/12 | ND | 0.1 |
| Ripon | C00519 | 07/22/12 | 07/23/12 | ND | 0.1 |
| Ripon | C00526 | 08/02/12 | 08/03/12 | ND | 0.1 |
| Ripon | C00533 | 08/07/12 | 08/08/12 | ND | 0.1 |
| Ripon | C00547 | 08/15/12 | 08/16/12 | ND | 0.1 |
| Ripon | C00548 | 08/19/12 | 08/20/12 | ND | 0.1 |
| Ripon | C00558 | 08/30/12 | 08/31/12 | ND | 0.1 |
| Ripon | C00563 | 09/04/12 | 09/05/12 | ND | 0.1 |
| Ripon | C00570 | 09/12/12 | 09/13/12 | ND | 0.1 |
| Ripon | C00579 | 09/16/12 | 09/17/12 | 0.416 | 0.1 |
| Ripon | C00594 | 09/27/12 | 09/28/12 | 0.307 | 0.1 |
| Ripon | C00595 | 10/01/12 | 10/02/12 | ND | 0.1 |
| Ripon | C00602 | 10/10/12 | 10/11/12 | ND | 0.1 |
| Ripon | C00610 | 10/14/12 | 10/15/12 | ND | 0.1 |
| Ripon | C00626 | 10/25/12 | 10/26/12 | ND | 0.1 |
| Ripon | C00631 | 10/29/12 | 10/30/12 | ND | 0.1 |
| Ripon | C00635 | 11/07/12 | 11/08/12 | ND | 0.1 |
| Ripon | C00648 | 11/13/12 | 11/14/12 | ND | 0.1 |
| Ripon | C00654 | 11/20/12 | 11/21/12 | ND | 0.1 |
| Ripon | C00656 | 11/29/12 | 11/30/12 | ND | 0.1 |
| Ripon | C00664 | 12/07/12 | 12/08/12 | ND | 0.1 |
| Ripon | C00677 | 12/11/12 | 12/12/12 | 0.687 | 0.1 |
| Ripon | C00685 | 12/19/12 | 12/20/12 | 0.364 | 0.1 |
| Ripon | C00692 | 12/26/12 | 12/27/12 | ND | 0.1 |
| Camarillo/Oxnard | TX011386 | 1/7/12 | 1/8/12 | 0.067 | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Camarillo/Oxnard | TX011380 | 1/10/12 | 1/11/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011389 | 1/12/12 | 1/13/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011394 | 1/16/12 | 1/17/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011409 | 1/22/12 | 1/23/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011417 | 1/28/12 | 1/29/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011437 | 2/3/12 | 2/4/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011445 | 2/9/12 | 2/10/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011465 | 2/21/12 | 2/22/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011493 | 2/23/12 | 2/24/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011489 | 2/27/12 | 2/28/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011501 | 3/4/12 | 3/5/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011518 | 3/10/12 | 3/11/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011516 | 3/14/12 | 3/15/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011551 | 3/16/12 | 3/17/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011550 | 3/22/12 | 3/23/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011562 | 3/28/12 | 3/29/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011579 | 4/3/12 | 4/4/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011590 | 4/9/12 | 4/10/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011587 | 4/11/12 | 4/12/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011614 | 4/15/12 | 4/16/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011619 | 4/21/12 | 4/22/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011637 | 4/27/12 | 4/28/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011641 | 5/3/12 | 5/4/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011658 | 5/9/12 | 5/10/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011665 | 5/15/12 | 5/16/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011671 | 5/17/12 | 5/18/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011693 | 5/21/12 | 5/22/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011694 | 5/27/12 | 5/28/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011715 | 6/2/12 | 6/3/12 | 0.037 | 0.03 |
| Camarillo/Oxnard | TX011721 | 6/8/12 | 6/9/12 | 0.071 | 0.03 |
| Camarillo/Oxnard | TX011741 | 6/14/12 | 6/15/12 | 0.052 | 0.03 |
| Camarillo/Oxnard | TX011760 | 6/20/12 | 6/21/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011763 | 6/26/12 | 6/27/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011757 | 6/28/12 | 6/29/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011778 | 7/2/12 | 7/3/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011792 | 7/8/12 | 7/9/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011796 | 7/14/12 | 7/15/12 | 0.24 | 0.03 |
| Camarillo/Oxnard | TX011814 | 7/20/12 | 7/21/12 | 3.4 | 0.03 |
| Camarillo/Oxnard | TX011810 | 7/24/12 | 7/25/12 | 0.33 | 0.03 |
| Camarillo/Oxnard | TX011822 | 7/26/12 | 7/27/12 | 0.53 | 0.03 |
| Camarillo/Oxnard | TX011840 | 8/1/12 | 8/2/12 | 0.18 | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Camarillo/Oxnard | TX011846 | 8/7/12 | 8/8/12 | 0.7 | 0.03 |
| Camarillo/Oxnard | TX011864 | 8/13/12 | 8/14/12 | 0.054 | 0.03 |
| Camarillo/Oxnard | TX011869 | 8/15/12 | 8/16/12 | 0.044 | 0.03 |
| Camarillo/Oxnard | TX011906 | 8/19/12 | 8/20/12 | 0.073 | 0.03 |
| Camarillo/Oxnard | TX011898 | 8/25/12 | 8/26/12 | 0.1 | 0.03 |
| Camarillo/Oxnard | TX011903 | 8/31/12 | 9/1/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011925 | 9/6/12 | 9/7/12 | 0.086 | 0.03 |
| Camarillo/Oxnard | TX011928 | 9/12/12 | 9/13/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011945 | 9/18/12 | 9/19/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011939 | 9/20/12 | 9/21/12 | 0.032 | 0.03 |
| Camarillo/Oxnard | TX011966 | 9/24/12 | 9/25/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011976 | 9/30/12 | 10/1/12 | 0.14 | 0.03 |
| Camarillo/Oxnard | TX011984 | 10/6/12 | 10/7/12 | 0.034 | 0.03 |
| Camarillo/Oxnard | TX011993 | 10/12/12 | 10/13/12 | ND | 0.03 |
| Camarillo/Oxnard | TX011990 | 10/16/12 | 10/17/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012020 | 10/18/12 | 10/19/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012031 | 10/30/12 | 10/31/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012053 | 11/5/12 | 11/6/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012067 | 11/11/12 | 11/12/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012068 | 11/17/12 | 11/18/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012074 | 11/20/12 | 11/21/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012095 | 11/23/12 | 11/24/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012105 | 11/29/12 | 11/30/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012111 | 12/5/12 | 12/6/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012132 | 12/11/12 | 12/12/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012128 | 12/13/12 | 12/14/12 | 0.041 | 0.03 |
| Camarillo/Oxnard | TX012143 | 12/17/12 | 12/18/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012144 | 12/23/12 | 12/24/12 | ND | 0.03 |
| Camarillo/Oxnard | TX012165 | 12/29/12 | 12/30/12 | ND | 0.03 |
| Santa Maria | TX011360 | 1/4/12 | 1/5/12 | ND | 0.03 |
| Santa Maria | TX011368 | 1/10/12 | 1/11/12 | ND | 0.03 |
| Santa Maria | TX011379 | 1/12/12 | 1/13/12 | ND | 0.03 |
| Santa Maria | TX011391 | 1/16/12 | 1/17/12 | ND | 0.03 |
| Santa Maria | TX011404 | 1/22/12 | 1/23/12 | ND | 0.03 |
| Santa Maria | TX011416 | 1/31/12 | 2/1/12 | ND | 0.03 |
| Santa Maria | TX011428 | 2/3/12 | 2/4/12 | ND | 0.03 |
| Santa Maria | TX011442 | 2/9/12 | 2/10/12 | ND | 0.03 |
| Santa Maria | TX011451 | 2/15/12 | 2/16/12 | ND | 0.03 |
| Santa Maria | TX011471 | 2/21/12 | 2/22/12 | ND | 0.03 |
| Santa Maria | TX011469 | 2/23/12 | 2/24/12 | ND | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Santa Maria | TX011479 | 2/27/12 | 2/28/12 | ND | 0.03 |
| Santa Maria | TX011497 | 3/4/12 | 3/5/12 | ND | 0.03 |
| Santa Maria | TX011517 | 3/10/12 | 3/11/12 | ND | 0.03 |
| Santa Maria | TX011515 | 3/14/12 | 3/15/12 | ND | 0.03 |
| Santa Maria | TX011532 | 3/16/12 | 3/17/12 | ND | 0.03 |
| Santa Maria | TX011537 | 3/22/12 | 3/23/12 | ND | 0.03 |
| Santa Maria | TX011560 | 3/28/12 | 3/29/12 | ND | 0.03 |
| Santa Maria | TX011577 | 4/3/12 | 4/4/12 | ND | 0.03 |
| Santa Maria | TX011588 | 4/9/12 | 4/10/12 | ND | 0.03 |
| Santa Maria | TX011586 | 4/11/12 | 4/12/12 | ND | 0.03 |
| Santa Maria | TX011596 | 4/15/12 | 4/16/12 | ND | 0.03 |
| Santa Maria | TX011613 | 4/21/12 | 4/22/12 | ND | 0.03 |
| Santa Maria | TX011624 | 4/27/12 | 4/28/12 | ND | 0.03 |
| Santa Maria | TX011639 | 5/3/12 | 5/4/12 | ND | 0.03 |
| Santa Maria | TX011650 | 5/9/12 | 5/10/12 | ND | 0.03 |
| Santa Maria | TX011663 | 5/15/12 | 5/16/12 | ND | 0.03 |
| Santa Maria | TX011669 | 5/17/12 | 5/18/12 | ND | 0.03 |
| Santa Maria | TX011674 | 5/21/12 | 5/22/12 | ND | 0.03 |
| Santa Maria | TX011692 | 5/27/12 | 5/28/12 | ND | 0.03 |
| Santa Maria | TX011696 | 6/2/12 | 6/3/12 | 0.035 | 0.03 |
| Santa Maria | TX011716 | 6/8/12 | 6/9/12 | 0.054 | 0.03 |
| Santa Maria | TX011730 | 6/14/12 | 6/15/12 | 0.036 | 0.03 |
| Santa Maria | TX011743 | 6/20/12 | 6/21/12 | ND | 0.03 |
| Santa Maria | TX011759 | 6/26/12 | 6/27/12 | ND | 0.03 |
| Santa Maria | TX011762 | 6/28/12 | 6/29/12 | ND | 0.03 |
| Santa Maria | TX011770 | 7/2/12 | 7/3/12 | ND | 0.03 |
| Santa Maria | TX011777 | 7/8/12 | 7/9/12 | ND | 0.03 |
| Santa Maria | TX011795 | 7/14/12 | 7/15/12 | ND | 0.03 |
| Santa Maria | TX011808 | 7/20/12 | 7/21/12 | ND | 0.03 |
| Santa Maria | TX011811 | 7/24/12 | 7/25/12 | ND | 0.03 |
| Santa Maria | TX011821 | 7/26/12 | 7/27/12 | ND | 0.03 |
| Santa Maria | TX011829 | 8/1/12 | 8/2/12 | 0.041 | 0.03 |
| Santa Maria | TX011842 | 8/7/12 | 8/8/12 | 0.04 | 0.03 |
| Santa Maria | TX011852 | 8/13/12 | 8/14/12 | 0.46 | 0.03 |
| Santa Maria | TX011868 | 8/15/12 | 8/16/12 | 0.32 | 0.03 |
| Santa Maria | TX011880 | 8/19/12 | 8/20/12 | 0.11 | 0.03 |
| Santa Maria | TX011887 | 8/25/12 | 8/26/12 | 0.12 | 0.03 |
| Santa Maria | TX011900 | 8/31/12 | 9/1/12 | 0.12 | 0.03 |
| Santa Maria | TX011918 | 9/6/12 | 9/7/12 | 0.36 | 0.03 |
| Santa Maria | TX011927 | 9/12/12 | 9/13/12 | 0.58 | 0.03 |
| Santa Maria | TX011946 | 9/18/12 | 9/19/12 | 0.42 | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Santa Maria | TX011938 | 9/20/12 | 9/21/12 | 0.55 | 0.03 |
| Santa Maria | TX011955 | 9/24/12 | 9/25/12 | 0.68 | 0.03 |
| Santa Maria | TX011968 | 9/30/12 | 10/1/12 | 0.77 | 0.03 |
| Santa Maria | TX011977 | 10/6/12 | 10/7/12 | 0.11 | 0.03 |
| Santa Maria | TX011988 | 10/12/12 | 10/13/12 | 0.17 | 0.03 |
| Santa Maria | TX011995 | 10/16/12 | 10/17/12 | 0.045 | 0.03 |
| Santa Maria | TX012010 | 10/18/12 | 10/19/12 | 0.031 | 0.03 |
| Santa Maria | TX012027 | 10/24/12 | 10/25/12 | ND | 0.03 |
| Santa Maria | TX012029 | 10/30/12 | 10/31/12 | 0.21 | 0.03 |
| Santa Maria | TX012041 | 11/5/12 | 11/6/12 | 0.1 | 0.03 |
| Santa Maria | TX012058 | 11/11/12 | 11/12/12 | 0.062 | 0.03 |
| Santa Maria | TX012069 | 11/17/12 | 11/18/12 | ND | 0.03 |
| Santa Maria | TX012073 | 11/20/12 | 11/21/12 | 0.58 | 0.03 |
| Santa Maria | TX012084 | 11/23/12 | 11/24/12 | 0.17 | 0.03 |
| Santa Maria | TX012106 | 11/29/12 | 11/30/12 | ND | 0.03 |
| Santa Maria | TX012112 | 12/5/12 | 12/6/12 | ND | 0.03 |
| Santa Maria | TX012130 | 12/11/12 | 12/12/12 | ND | 0.03 |
| Santa Maria | TX012127 | 12/13/12 | 12/14/12 | ND | 0.03 |
| Santa Maria | TX012137 | 12/17/12 | 12/18/12 | ND | 0.03 |
| Santa Maria | TX012145 | 12/23/12 | 12/24/12 | ND | 0.03 |
| Santa Maria | TX012166 | 12/29/12 | 12/30/12 | ND | 0.03 |
| Watsonville | TX011410 | 1/4/12 | 1/5/12 | ND | 0.03 |
| Watsonville | TX011378 | 1/10/12 | 1/11/12 | ND | 0.03 |
| Watsonville | TX011381 | 1/12/12 | 1/13/12 | ND | 0.03 |
| Watsonville | TX011392 | 1/16/12 | 1/17/12 | ND | 0.03 |
| Watsonville | TX011407 | 1/22/12 | 1/23/12 | ND | 0.03 |
| Watsonville | TX011411 | 1/28/12 | 1/29/12 | ND | 0.03 |
| Watsonville | TX011439 | 2/9/12 | 2/10/12 | ND | 0.03 |
| Watsonville | TX011468 | 2/21/12 | 2/22/12 | ND | 0.03 |
| Watsonville | TX011466 | 2/23/12 | 2/24/12 | ND | 0.03 |
| Watsonville | TX011480 | 2/27/12 | 2/28/12 | ND | 0.03 |
| Watsonville | TX011514 | 3/14/12 | 3/15/12 | 0.037 | 0.03 |
| Watsonville | TX011529 | 3/16/12 | 3/17/12 | ND | 0.03 |
| Watsonville | TX011531 | 3/20/12 | 3/21/12 | ND | 0.03 |
| Watsonville | TX011547 | 3/22/12 | 3/23/12 | ND | 0.03 |
| Watsonville | TX011548 | 3/23/12 | 3/24/12 | ND | 0.03 |
| Watsonville | TX011561 | 3/28/12 | 3/29/12 | ND | 0.03 |
| Watsonville | TX011581 | 4/3/12 | 4/4/12 | ND | 0.03 |
| Watsonville | TX011593 | 4/9/12 | 4/10/12 | ND | 0.03 |
| Watsonville | TX011591 | 4/11/12 | 4/12/12 | 0.18 | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|-------------------|---------------|--------------|------------|------------------------------|-----------------------|
| Watsonville | TX011610 | 4/15/12 | 4/16/12 | ND | 0.03 |
| Watsonville | TX011615 | 4/21/12 | 4/22/12 | ND | 0.03 |
| Watsonville | TX011622 | 4/27/12 | 4/28/12 | ND | 0.03 |
| Watsonville | TX011638 | 5/3/12 | 5/4/12 | ND | 0.03 |
| Watsonville | TX011642 | 5/9/12 | 5/10/12 | ND | 0.03 |
| Watsonville | TX011664 | 5/15/12 | 5/16/12 | ND | 0.03 |
| Watsonville | TX011673 | 5/17/12 | 5/18/12 | ND | 0.03 |
| Watsonville | TX011686 | 5/21/12 | 5/22/12 | ND | 0.03 |
| Watsonville | TX011695 | 5/27/12 | 5/28/12 | 0.064 | 0.03 |
| Watsonville | TX011707 | 6/2/12 | 6/3/12 | ND | 0.03 |
| Watsonville | TX011718 | 6/8/12 | 6/9/12 | 0.046 | 0.03 |
| Watsonville | TX011731 | 6/14/12 | 6/15/12 | 0.053 | 0.03 |
| Watsonville | TX011742 | 6/20/12 | 6/21/12 | ND | 0.03 |
| Watsonville | TX011755 | 6/26/12 | 6/27/12 | 0.06 | 0.03 |
| Watsonville | TX011764 | 6/28/12 | 6/29/12 | ND | 0.03 |
| Watsonville | TX011771 | 7/2/12 | 7/3/12 | ND | 0.03 |
| Watsonville | TX011790 | 7/8/12 | 7/9/12 | 0.25 | 0.03 |
| Watsonville | TX011794 | 7/14/12 | 7/15/12 | 0.12 | 0.03 |
| Watsonville | TX011806 | 7/20/12 | 7/21/12 | ND | 0.03 |
| Watsonville | TX011812 | 7/24/12 | 7/25/12 | ND | 0.03 |
| Watsonville | TX011824 | 7/26/12 | 7/27/12 | ND | 0.03 |
| Watsonville | TX011839 | 8/1/12 | 8/2/12 | 0.077 | 0.03 |
| Watsonville | TX011845 | 8/7/12 | 8/8/12 | 0.1 | 0.03 |
| Watsonville | TX011867 | 8/13/12 | 8/14/12 | 0.038 | 0.03 |
| Watsonville | TX011870 | 8/15/12 | 8/16/12 | 0.035 | 0.03 |
| Watsonville | TX011881 | 8/19/12 | 8/20/12 | 0.23 | 0.03 |
| Watsonville | TX011897 | 8/25/12 | 8/26/12 | 0.069 | 0.03 |
| Watsonville | TX011901 | 8/31/12 | 9/1/12 | 0.59 | 0.03 |
| Watsonville | TX011919 | 9/6/12 | 9/7/12 | 0.56 | 0.03 |
| Watsonville | TX011929 | 9/12/12 | 9/13/12 | 0.22 | 0.03 |
| Watsonville | TX011944 | 9/18/12 | 9/19/12 | 0.16 | 0.03 |
| Watsonville | TX011940 | 9/20/12 | 9/21/12 | 0.44 | 0.03 |
| Watsonville | TX011971 | 9/30/12 | 10/1/12 | 1.0 | 0.03 |
| Watsonville | TX011980 | 10/6/12 | 10/7/12 | 0.78 | 0.03 |
| Watsonville | TX011992 | 10/12/12 | 10/13/12 | 0.55 | 0.03 |
| Watsonville | TX011996 | 10/16/12 | 10/17/12 | 1.5 | 0.03 |
| Watsonville | TX012006 | 10/18/12 | 10/19/12 | 0.25 | 0.03 |
| Watsonville | TX012032 | 10/24/12 | 10/25/12 | 0.21 | 0.03 |
| Watsonville | TX012034 | 10/30/12 | 10/31/12 | 0.18 | 0.03 |
| Watsonville | TX012045 | 11/5/12 | 11/6/12 | ND | 0.03 |
| Watsonville | TX012056 | 11/11/12 | 11/12/12 | ND | 0.03 |

| Sampling Location | Sample Number | Date Started | Date Ended | Detected Concentration (ppb) | Detection Limit (ppb) |
|--------------------------|----------------------|---------------------|-------------------|-------------------------------------|------------------------------|
| Watsonville | TX012076 | 11/17/12 | 11/18/12 | ND | 0.03 |
| Watsonville | TX012075 | 11/20/12 | 11/21/12 | ND | 0.03 |
| Watsonville | TX012108 | 11/30/12 | 12/1/12 | ND | 0.03 |
| Watsonville | TX012109 | 12/5/12 | 12/6/12 | ND | 0.03 |
| Watsonville | TX012131 | 12/11/12 | 12/12/12 | ND | 0.03 |
| Watsonville | TX012129 | 12/13/12 | 12/14/12 | ND | 0.03 |
| Watsonville | TX012139 | 12/17/12 | 12/18/12 | ND | 0.03 |
| Watsonville | TX012190 | 12/23/12 | 12/24/12 | ND | 0.03 |
| Watsonville | TX012191 | 12/29/12 | 12/30/12 | ND | 0.03 |