COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

1224 SOUTH SANTA FE AVENUE, COMPTON, CALIFORNIA 90221
[redacted]
E-MAIL: comptoncreekmad@earthlink.net
(310) 933-5321 Phone & Fax

May 25, 2011

State Water Resources Control Board
1001 I Street
Sacramento, CA 95814

Subject: Updated NOI for National Pollutant Discharge Elimination System (NPDES) Permit for Vector Control

Sirs:

Enclosed please find Compton Creek Mosquito Abatement District's NOI and accompanying documents for a NPDES Permit.

In response to your letter of May 13, 2011 to Catherine Smith of the California Mosquito & Vector Control Association of California (MVCAC), the District was notified that it was lacking in four requirements. In answer to the questions, the District is providing the following updated documents as per your request:

- The updated NOI form as provided by the SWCRB
- Letters to the affected agencies within the District's boundaries notifying them of the District's NOI for the NPDES Permit
- The District's Pesticide Application Plan (PAP)
- The District's Pesticide List, this is Exhibit 'A'
- The District's Pesticide Use Report (PUR) for 2010, this is Exhibit 'B'
- A copy of the District's boundaries, with the Compton Creek highlighted in Blue on the map, and an explanation of these boundaries

Also, a photocopy of the District's payment fee is included in this packet.

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Please notify the District if there any discrepancies with any of these documents at your earliest convenience.

If you have any questions, please feel free to call the District Office at (310) 933-5321.

For Compton Creek MAD,

Mitchel R. Weinbaum,
District Manager

ATTACHMENT G – NOTICE OF INTENT

WATER QUALITY ORDER NO. 2011-0002-DWQ
GENERAL PERMIT NO. CAG 990004

STATEWIDE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES TO WATERS OF THE UNITED STATES FROM VECTOR CONTROL APPLICATIONS

I. NOTICE OF INTENT STATUS (see Instructions)

Mark only one item ☒ A. New Applicator ☐ B. Change of Information: WDID# _____

☐ C. Change of ownership or responsibility: WDID# _____

II. DISCHARGER INFORMATION

A. Name			
Compton Creek Mosquito Abatement District			
B. Mailing Address			
1224 S. Santa Fe Ave.			
C. City	D. County	E. State	F. Zip Code
Compton	Los Angeles	California	90221
G. Contact Person	H. Email address	I. Title	J. Phone
Mitchel R. Weinbaum	comptoncreekmad @earthlink.net	District Manager	(310) 933-5321

III. BILLING ADDRESS (Enter Information *only* if different from Section II above)

A. Name			
B. Mailing Address			
C. City	D. County	E. State	F. Zip Code
G. Email address	H. Title	I. Phone	

IV. RECEIVING WATER INFORMATION

A. Biological and residual pesticides discharge to (check all that apply)*:

1. Canals, ditches, or other constructed conveyance facilities owned and controlled by Discharger.
☐ Name of the conveyance system: _____

2. Canals, ditches, or other constructed conveyance facilities owned and controlled by an entity other than the Discharger.
☐ Owner's name: _____
Name of the conveyance system: _____

3. Directly to river, lake, creek, stream, bay, ocean, etc.
☒ Name of water body: Compton Creek, Los Angeles River, Pacific Ocean

* A map showing the affected areas for items 1 to 3 above may be included.

B. Regional Water Quality Control Board(s) where application areas are located (REGION 1, 2, 3, 4, 5, 6, 7, 8, or 9): Region 4
(List all regions where pesticide application is proposed.)

A map showing the locations of A1-A3 in each Regional Water Board shall be included.

V. PESTICIDE APPLICATION INFORMATION

A. Target Organisms: X Vector Larvae X Adult Vector

B. Pesticides Used: List name, active ingredients and, if known, degradation by-products

Please see Exhibit 'B' attached to this report.

C. Period of Application: Start Date Nov. 1, 2011 End Date ongoing

D. Types of Adjuvants Added by the Discharger:

VI. PESTICIDES APPLICATION PLAN

A. Has a Pesticides Application Plan been prepared?*
☒ Yes ☐ No

If not, when will it be prepared? _____

* A copy of the PAP shall be included with the NOI.

B. Is the applicator familiar with its contents?

☒ Yes ☐ No

VII. NOTIFICATION

Have potentially affected governmental agencies been notified?

☒ Yes ☐ No

* If yes, a copy of the notifications shall be attached to the NOI.

VIII. FEE

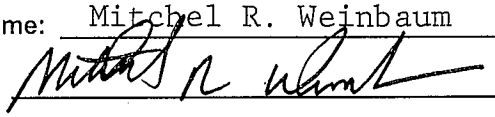
Have you included payment of the filing fee (for first-time enrollees only) with this submittal?

☐ Yes ☐ NO ☒ NA

IX. CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Additionally, I certify that the provisions of the General Permit, including developing and implementing a monitoring program, will be complied with."

A. Printed Name: Mitchel R. Weinbaum

B. Signature:  Date: May 25, 2011

C. Title: District Manager

X. FOR STATE WATER BOARD USE ONLY

WDID:	Date NOI Received:	Date NOI Processed:
Case Handler's Initial:	**Fee Amount Received:** $	**Check #:**

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

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(310) 933-5321 Phone & Fax

Mitchel R. Weinbaum, Manager

March 2, 2011

US Army Corps of Engineers
911 Whilshire Blvd. Room 1525
Los Angeles, CA 90017

Subject: National Pollutant Discharge Elimination System permit

Sirs:

This letter is written to inform you that the Compton Creek Mosquito Abatement District has applied for a National Pollutant Discharge Elimination System (NPDES) permit with the State Water Resources Control Board (SWRCB). Each year, the District has utilized safe and regulated pesticides in the control of disease-carrying and pest mosquitoes. This permit is now required to ensure that the District can continue to use these products and provide the services needed to protect the public's health.

A copy of all documents related to the NPDES can be obtained at the District Office or obtained from the State Water Resources Control Board website. Please call the District Office if you have any questions.

For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

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Mitchel R. Weinbaum, Manager

March 2, 2011

City of Compton
City of Long Beach
County of Los Angeles
Los Angeles County Flood Control
US Army Corps of Engineers

Subject: National Pollutant Discharge Elimination System permit

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For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

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(310) 933-5321 Phone & Fax

Mitchel R. Weinbaum, Manager

March 2, 2011

City of Compton
205 S. Willowbrook Ave.
Compton, CA 90220

Subject: National Pollutant Discharge Elimination System permit

Sirs:

This letter is written to inform you that the Compton Creek Mosquito Abatement District has applied for a National Pollutant Discharge Elimination System (NPDES) permit with the State Water Resources Control Board (SWRCB). Each year, the District has utilized safe and regulated pesticides in the control of disease-carrying and pest mosquitoes. This permit is now required to ensure that the District can continue to use these products and provide the services needed to protect the public's health.

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For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

1224 SOUTH SANTA FE AVENUE, COMPTON, CALIFORNIA 90221
[redacted]
E-MAIL: comptoncreekmad@earthlink.net
(310) 933-5321 Phone & Fax

Mitchel R. Weinbaum, Manager

March 2, 2011

Los Angeles County Flood Control
10179 Glenoaks Ave.
San Fernando, CA 91352-1019

Subject: National Pollutant Discharge Elimination System permit

Sirs:

This letter is written to inform you that the Compton Creek Mosquito Abatement District has applied for a National Pollutant Discharge Elimination System (NPDES) permit with the State Water Resources Control Board (SWRCB). Each year, the District has utilized safe and regulated pesticides in the control of disease-carrying and pest mosquitoes. This permit is now required to ensure that the District can continue to use these products and provide the services needed to protect the public's health.

A copy of all documents related to the NPDES can be obtained at the District Office or obtained from the State Water Resources Control Board website. Please call the District Office if you have any questions.

For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

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[redacted]
E-MAIL: comptoncreekmad@earthlink.net
(310) 933-5321 Phone & Fax

Mitchel R. Weinbaum, Manager

March 2, 2011

County of Los Angeles
500 W. Temple St., Room 383
Los Angeles, CA 90012

Subject: National Pollutant Discharge Elimination System permit

Sirs:

This letter is written to inform you that the Compton Creek Mosquito Abatement District has applied for a National Pollutant Discharge Elimination System (NPDES) permit with the State Water Resources Control Board (SWRCB). Each year, the District has utilized safe and regulated pesticides in the control of disease-carrying and pest mosquitoes. This permit is now required to ensure that the District can continue to use these products and provide the services needed to protect the public's health.

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For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

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[redacted]
E-MAIL: comptoncreekmad@earthlink.net
(310) 933-5321 Phone & Fax

Mitchel R. Weinbaum, Manager

March 2, 2011

City of Long Beach
333 W. Ocean Blvd.
Long Beach, CA 90802

Subject: National Pollutant Discharge Elimination System permit

Sirs:

This letter is written to inform you that the Compton Creek Mosquito Abatement District has applied for a National Pollutant Discharge Elimination System (NPDES) permit with the State Water Resources Control Board (SWRCB). Each year, the District has utilized safe and regulated pesticides in the control of disease-carrying and pest mosquitoes. This permit is now required to ensure that the District can continue to use these products and provide the services needed to protect the public's health.

A copy of all documents related to the NPDES can be obtained at the District Office or obtained from the State Water Resources Control Board website. Please call the District Office if you have any questions.

For Compton Creek MAD:

Mitchel R. Weinbaum,
District Manager

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS PERMIT

PESTICIDE APPLICATION PLAN

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

1. **Description of ALL target areas, if different from the water body of the target area, in to which larvicides and adulticides are being planned to be applied or may be applied to control vectors. The description shall include adjacent areas, if different from the water body of the target areas;**
   A map of the District's boundaries is included in this packet.

2. **Discussion of the factors influencing the decision to select pesticide applications for mosquito control;**
   Please see the Best Management Practices for Mosquito Control in California.

3. **Pesticide products or types expected to be used and if known, their degradation by-products, the method in which they are applied, and if applicable, the adjuvents and surfactants used;**
   Please see Attachments E and F within NPDES Permit for Biological and Residual Pesticide Discharges to Waters of the U.S. for Vector Control Applications. Products may be applied by hand, truck, backpack, hand can, helicopter, or airplane according to label directions.

4. **Description of ALL the application areas* and the target areas in the system that are being planned to applied or may be applied. Provide a map showing these areas;**
   Any site that holds water for more than 96 hours (4 days) can produce mosquitoes. Source reduction is the District's preferred solution, and whenever possible the District works with property owners to affect long-term solutions to reduce or eliminate the need for continued applications as described in Best Management Practices for Mosquito Control in California. The typical sources treated by this District include:
   1. Street gutters and catch basin/drains throughout the entire District area
   2. 2 Flood control channels
   3. The Compton Creek, which is highlighted in the on the map provided

5. **Other control methods used (alternatives) and their limitations;**
   With any source of mosquitoes or other vectors, the District's first goal is to look for ways to eliminate the source, or if that is not possible, for ways to reduce the potential for vectors. The most commonly used methods and their limitations are included in the Best Management Practices for Mosquito Control in California.
   The first method other than source reduction is biological, by stocking year-round water habitats with mosquito-fish, (*Gambusia affinis*). This is the main means of mosquito control

Asterisks indicate terms that are defined in Attachment A of the NPDES Permit for Vector Control

in the Compton Creek. These fish are free of charge to residents of the District and instructions are given to them as to the locations where these fish may/may not be used. The District has an active public education program where information is shared with residents, schools, block clubs, etc... about the effects of mosquitoes and what they, as citizens, can do to help to alleviate the mosquito breeding sources.
The most commonly used methods and their limitations are included in the Best Management Practices for Mosquito Control in California.

6. **How much product is needed and how this amounts was determined;**
The need to apply product is determined by surveillance. Actual use varies annually depending on the mosquito activity. The pesticide amounts presented below were taken from the Compton Creek Mosquito Abatement District's 2010 PUR as an estimate of pesticide use in 2011. Other public health pesticides in addition to those listed below may be used as part of the District's best management practices.
Please refer to Exhibit B as part of this document for the District's PUR

7. **Representative monitoring locations* and the justification for selecting these monitoring locations**
Please see the MVCAC NPDES Coalition Monitoring Plan

8. **Evaluation of available BMPs to determine if there are feasible alternatives to the selected pesticide application project that could reduce potential water quality impacts; and**
Please see the Best Management Practices for Mosquito Control in California

9. **Description of the BMPs to be implemented. The BMPs shall include at a minimum:**
The District's BMPs are described in the Best Management Practices for Mosquito Control in California and in the California Mosquito-borne Virus Surveillance and Response Plan. Specific elements have been highlighted below under items a-f.
   a. **measures to prevent pesticide spill;**
   All pesticide applicators receive annual spill prevention and response training. District employees ensure daily that application equipment is in proper working order. Spill mitigation devices are placed in all vehicles and pesticide storage areas.

   b. **measures to ensure that only a minimum and consistent amount is used**
   Application equipment is calibrated at least annually as required by the Department of Pesticide Regulations (DPR) and the terms of a cooperative agreement with the California Department of Public Health (CDPH).

   c. **a plan to educate Coalition's or Discharger's staff and pesticide applicator on any potential adverse effects to waters of the U.S. from the pesticide application;**
   This will be included in our pesticide applicators annual pesticide application and safety training, continuing education programs, and/or regional NPDES Permit training programs.

d. **descriptions of specific BMPs for each application mode, e.g. aerial, truck, hand, etc.;**

The Compton Creek Mosquito Abatement District calibrates truck-mounted and handheld larviciding equipment each year to meet application specifications. Supervisors review application records daily to ensure appropriate amounts of material are being used. Ultra-low volume (ULV) application equipment is calibrated for output and droplet size to meet label requirements. Aerial larviciding equipment is calibrated by the Contractor. Aerial adulticide equipment is calibrated regularly and droplet size will be monitored by the District to ensure droplets meet label requirements. Airplanes used in urban ULV applications and the primary airplane used for rural ULV application is equipped with advanced guidance and drift management equipment to ensure the best available technology is being used to place product in the intended area. If a secondary airplane is used in rural ULV applications it will be equipped with an advanced guidance system.

e. **descriptions of specific BMPs for each pesticide product used; and**

Please see the Best Management Practices for Mosquito Control in California for general pesticide application BMPs, and the current approved pesticide labels for application BMPs for specific products.

f. **descriptions of specific BMPs for each type of environmental setting (agricultural, urban, and wetland).**

Please see the Best Management Practices for Mosquito Control in California.

10. **Identification of the problem. Prior to first pesticide application covered under this General Permit that will result in a discharge of biological and residual pesticides to waters of the US, and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, the Discharger must do the following for each vector management area:**

a. **If applicable, establish densities for larval and adult vector populations to serve as action threshold(s) for implementing pest management strategies;**

The Compton Creek Mosquito Abatement District's staff only apply pesticides to sources of mosquitoes that represent imminent threats to public health or quality of life. The presence of any mosquito may necessitate treatment, however higher thresholds may be applied depending on the District's resources, disease activity, or local needs. Treatment thresholds are based on a combination of one or more of the following criteria:

- Mosquito species present
- Mosquito stage of development
- Pest, nuisance, or disease potential
- Disease activity
- Mosquito abundance
- Flight range

- Proximity to populated areas
- Size of source
- Presence/absence of natural enemies or predators
- Presence of sensitive/endangered species or habitats.

b. **Identify target vector species to develop species-specific pest management strategies based on developmental and behavioral considerations for each species;** Please see the Best Management Practices for Mosquito Control in California and the California Mosquito-borne Virus Surveillance and Response Plan.

c. **Identify known breeding areas for source reduction, larval control program, and habitat management; and**
Any site that holds water for more than 96 hours (4 days) can produce mosquitoes. Source reduction is the District's preferred solution, and whenever possible the District works with property owners to implement long-term solutions to reduce or eliminate the need for continued applications as described in Best Management Practices for Mosquito Control in California.

d. **Analyze existing surveillance data to identify new or unidentified sources of vector problems as well as areas that have recurring vector problems.**
This is included in the Best Management Practices for Mosquito Control in California and the California Mosquito-borne Virus Surveillance and Response Plan that the Districts uses. The District continually collects adult and larval mosquito surveillance data, dead bird reports, and sentinel chicken test results and uses these data to guide mosquito control activities.

11. **Examination of Alternatives. Dischargers shall continue to examine alternatives to pesticide use in order to reduce the need for applying larvicides that contain temephos and for spraying adulticides. Such methods include:**
    a. **Evaluating the following management options, in which the impact to water quality, impact to non-target organisms, vector resistance, feasibility, and cost effectiveness should be considered:**
        - **No action**
        - **Prevention**
        - **Mechanical or physical methods**
        - **Cultural methods**
        - **Biological control agents**
        - **Pesticides**

    If there are no alternatives to pesticides, dischargers shall use the least amount of pesticide necessary to effectively control the target pest.

    The Compton Creek Mosquito Abatement District's uses the principles and practices of integrated vector management (IVM) as described on pages 26 and 27 of Best

Management Practices for Mosquito Control in California. As stated in item #10 above, locations where vectors may exist are assessed, and the potential for using alternatives to pesticides is determined on a case-by-case basis. Commonly considered alternatives include: 1) Eliminate artificial sources of standing water; 2) Ensure temporary sources of surface water drain within four days (96 hours) to prevent adult mosquitoes from developing; 3) Control plant growth in ponds, ditches, and shallow wetlands; 4) Design facilities and water conveyance and/or holding structures to minimize the potential for producing mosquitoes; and 5) Use appropriate biological control methods that are available. Additional alternatives to using pesticides for managing mosquitoes are listed on pages 4-19 of the Best Management Practices for Mosquito Control in California.

Implementing preferred alternatives depends a variety of factors including availability of agency resources, cooperation with stakeholders, coordination with other regulatory agencies, and the efficacy of the alternative. If a pesticide-free alternative does not sufficiently reduce the risk to public health, pesticides are considered, beginning with the least amount necessary to effectively control the target vector.

b. Applying pesticides only when vectors are present at a level that will constitute a nuisance.

The Compton Creek Mosquito Abatement District follows an existing integrated vector management (IVM) program which includes practices described in the California Mosquito-borne Virus Surveillance and Response Plan and Best Management Practices for Mosquito Control in California.

A "nuisance" is specifically defined in California Health and Safety Code (HSC) §2002(j). This definition allows vector control agencies to address situations where even a low level of vectors may pose a substantial threat to public health. In practice, the definition of a "nuisance" is generally only part of a decision to apply pesticides to areas covered under this permit. As summarized in the California Mosquito-borne Virus Surveillance and Response Plan, the overall risk to the public when vectors and/or vector-borne disease are present is used to select an available and appropriate material, rate, and application method to address that risk in the context of our IVM program.

12. Correct Use of Pesticides

Coalition's or Discharger's use of pesticides must ensure that all reasonable precautions are taken to minimize the impacts caused by pesticide applications. Reasonable precautions include using the right spraying techniques and equipment, taking account of weather conditions and the need to protect the environment.

This is an existing practice of the Compton Creek Mosquito Abatement District, and is required to comply with the Department of Pesticide Regulation's (DPR) requirements and the terms of our California Department of Public Health (CDPH) Cooperative Agreement. All

pesticide applicators receive annual safety and spill training in addition to their regular continuing education.

13. If applicable, specify a website where public notices, required in Section VIII.B, may be found.

The District does not have a website and thus the SWRCB would post Public Notices on its website.

References:

Best Management Practices for Mosquito Control in California. 2010. Available by download from the California Department of Public Health—Vector-Borne Disease Section at http://www.westnile.ca.gov/resources.php under the heading Mosquito Control and Repellent Information. Copies may be also requested by calling the California Department of Public Health—Vector-Borne Disease Section at (916) 552-9730 or the Compton Creek Mosquito Abatement District at (310) 933-5321

California Mosquito-borne Virus Surveillance and Response Plan. 2010. [Note: this document is updated annually by CDPH]. . Available by download from the California Department of Public Health—Vector-Borne Disease Section at http://www.westnile.ca.gov/resources.php under the heading Response Plans and Guidelines. Copies may be also requested by calling the California Department of Public Health—Vector-Borne Disease Section at (916) 552-9730 or the Compton Creek Mosquito Abatement District at (310) 933-5321.

MVCAC NPDES Coalition Monitoring Plan. 2011. [In development at the time of this draft]

Exhibit A – Compton Creek Mosquito Abatement District's Pesticide Use Report for 2010

Exhibit B – Compton Creek Mosquito Abatement District's list of Pesticides Utilized in 2010

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

LIST OF PESTICIDES UTILIZED BY THE DISTRICT IN 2010

EXHIBIT 'A'

Golden Bear 1111 – Petroleum

Altosid Briquets – S-Methoprene

Vectolex WDG – Bacillus Sphaericus

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

PESTICIDE USE REPORT - 2010

EXHIBIT 'B'

Month/Year	Product	Usage		Applications
January, 2010	Golden Bear 1111	0		0
	Altosid Briquets	0		0
	Vectolex WDG	0		0
February, 2010	Golden Bear 1111	0		0
	Alto. Briq	0		0
	Vectolex WDG	0		0
March, 2010	Golden Bear 1111	0		0
	Alto. Briq	0		0
	Vectolex WDG	0		0
April, 2010	Golden Bear 1111	0.5	gal	16
	Altosid Briquets	0.72	oz	16
	Vectolex WDG	0		0
May, 2010	Golden Bear 1111	3.5	gal	18
	Altosid Briquets	1.35	lbs	25
	Vectolex WDG	0		0
June, 2010	Golden Bear 1111	4.5	gal	18
	Altosid Briquets	1.44	lbs	28
	Vectolex WDG	8	oz	180
July, 2010	Golden Bear 1111	4.5	gal	9
	Altosid Briquets	1.44	lbs	15
	Vectolex WDG	6	oz	178
August, 2010	Golden Bear 1111	4.5	gal	22
	Altosid Briquets	1.35	lbs	22
	Vectolex WDG	7	oz	125
September, 2010	Golden Bear 1111	1.25	gal	15
	Altosid Briquets	1.11	lbs	30
	Vectolex WDG	5	oz	170
October, 2010	Golden Bear 1111	0		0
	Altosid Briquets	0		0
	Vectolex WDG	0		0

COMPTON CREEK MOSQUITO ABATEMENT DISTRICT

PESTICIDE USE REPORT - 2010

EXHIBIT 'B'

Month/Year	Product	Usage		Applications
November, 2010	Golden Bear 1111	0		0
	Altosid Briquets	0		0
	Vectolex WDG	0		0
December, 2010	Golden Bear 1111	0		0
	Altosid Briquets	0		0
	Vectolex WDG	0		0
TOTALS FOR 2010	Golden Bear 1111	18.75	gal	98
TOTALS FOR 2010	Altosid Briquets	7.41	lbs	136
TOTALS FOR 2010	Vectolex WDG	26	oz's	653