

Appendix B

**RHR Recyclable Material
Bale Management Operations Plan
(April 11, 2018)**



RECEIVED

APR 12 2018

COUNTY OF SOLANO
RESOURCE MANAGEMENT

April 11, 2018

Marcy Hannum
Solano County Dept. of Resource Management
675 Texas St., Suite 5500
Fairfield, Ca 94533

Re: Revised Recyclable Material Bale Management Operations Plan, Recology Hay Road & Jepson Prairie Organics, Solano County

Dear Marcy,

As follow-up to your March 12, 2018 and April 05, 2018 e-mails, this letter transmits the attached *Revised Recyclable Material Bale Management Operations Plan* (Plan) for the temporary storage of baled single stream recyclable material within the Recology Hay Road and Jepson Prairie Organics facility footprints.

Due to China's current import restrictions of recyclable materials, Recology Hay Road is proposing to temporarily store recyclable material at the Recology Hay Road and Jepson Prairie Organics facilities (Facility). It is Recology's goal to temporarily store recyclable material, rather than landfilling it until processing capabilities are improved to meet the new requirements and or new markets are developed to accept the material. Temporary storage of recyclable material at the Facility is consistent with the provisions in the CalRecycle Guidance Document on *China's Import Restrictions and Guidance Regarding the Additional Storage of Recycled Material* (1/16/2018) and the Facility's operating documents (Recology Hay Road *Joint Technical Document* and Jepson Prairie Organics *Report of Composting Site Information*).

The attached Plan addresses all the comments included in your March 12, 2018 and April 05, 2018 e-mails.

If you have any questions or need additional information, please contact Bryan Clarkson at (707) 450-2339 or me at (707) 678-4718.

Sincerely,

A handwritten signature in blue ink, appearing to be 'G. Pryor'.

Greg Pryor
General Manager, Recology Hay Road

Attachment: Revised Recyclable Material Bale Management Operations Plan, April 11, 2018

cc: Bryan Clarkson, Recology

Administrative Office: 235 North First Street | Dixon, CA 95620-3027 | T: 800.208.2371 | F: 707.678.5148
Site Location: 6426 Hay Road | Vacaville, CA 95687-9433 | T: 707.678.4718 | F: 707.678.5695

RecologyHayRoad.com | Proud to be employee owned



REVISED RECYCLABLE MATERIAL
BALE MANAGEMENT
OPERATIONS PLAN

Recology Hay Road
and
Jepson Prairie Organics

April 11, 2018

1 INTRODUCTION

1.1 PURPOSE

This Recyclable Material Bale Management Operations Plan describes the management of baled, single stream recyclables at Recology Hay Road and Jepson Prairie Organics, 6426 Hay Road, Vacaville, CA 95687. (Facility). This plan contains procedures for receiving, storing, and shipping baled recyclables.

The Facility consists of a landfill and compost facility and operates in accordance with Solid Waste Facility Permit 48-AA-0002 and Compostable Materials Handling Facility Permit 48-AA-0083. This Recyclable Material Bale Management Operations Plan is designed to be implemented in conjunction with the Joint Technical Document (2015) and Report of Composting Site Information (February 2013).

1.2 OVERVIEW

Due to China's current import restrictions of recyclable materials, Recology Hay Road and Jepson Prairie Organics are proposing to temporarily store recyclable material at the Recology Hay Road and Jepson Prairie Organics facilities. It is Recology's goal to temporarily store recyclable material, rather than landfilling it until processing capabilities are improved to meet the new requirements and or new markets are developed to accept the material. Temporary storage of recyclable material at the Facility is consistent with the provisions in the CalRecycle Guidance Document on *China's Import Restrictions and Guidance Regarding the Additional Storage of Recycled Material* (1/16/2018) and the Facility's operating documents (Recology Hay Road Joint Technical Document and Jepson Prairie Organics' Report of Composting Site Information).

Recology is preparing to transport baled, single stream recyclables from facilities in northern California to the Facility for temporary storage. Trucks delivering the baled recyclables will be weighed in at the scale house and then proceed to designated areas to be unloaded. The baled recyclables will be unloaded by forklift and the bales stacked in a configuration that provides for long term stability of the stacks. The stacked bales will be protected from storm water, and measures to control vectors and nuisance conditions will be employed. The baled recyclables will be stored in stacks until they can be processed at a suitable Material Recovery Facility (MRF).

2 PLAN DESCRIPTION

2.1 FACILITY LAYOUT

Figure 1 shows two areas where baled recyclables may be stored. The larger of the two areas is on the north side of the paved portion of the Jepson Prairie Organics facility. The other proposed location is underneath a portion of the existing recyclables storage area directly east of the scale house.

Bales at both locations are expected to be stored 4 bales high with stacks approximately 12' tall. Each row of bales will be overlapped from the lower row of bales to add stability. This would enable the storage of approximately 3,680 bales between the two locations.

3 OPERATIONS DESCRIPTION

3.1 MATERIAL THROUGHPUT

It is anticipated that up to 20 trucks per day of baled recyclables may be delivered to the Facility for storage. Truck traffic will fluctuate as needed. Each truck will contain approximately 50 bales of recyclable materials. Each bale is approximately 3' W x 5' L x 3'H.

3.2 ACCESS AND EGRESS

Trucks delivering baled recyclables to the Facility will enter through the scales at the main entrance. After being weighed, the trucks will proceed to a bale storage area for unloading. The trucks will exit the Facility through the main entry after being weighed at the outbound scales.

3.3 MATERIAL RECEIVING, STORING AND SHIPPING

Whenever possible, incoming loads of baled recyclables will be delivered to the Facility during off peak hours.

Loads of incoming baled recyclables will be directed to specific storage areas and unloaded by forklift. Bale contact with the ground will be minimized by storing the bales on pallets and over tarps. The bales will be stacked up to four bales high in a staggered pattern to increase stability

and covered with a tarp that overlaps the base tarp. Stacked bales will be overlapped to improve the stability of the stacks and prevent an air gap between the bales extending from the bottom to the top of the stack. If both storage areas are utilized, a total of up to 3,680 bales may be stored at the Facility.

When capacity and conditions permit at an area MRF, the recyclable bales will be loaded by forklift onto outbound trucks, weighed at the outbound scale and delivered to the MRF for processing. Material will be shipped on a first in/first out basis to limit the length of time that the material is stored on site.

A log will be maintained to track the dates and tonnage of incoming and outgoing loads and the records will be submitted to the LEA on a monthly basis. The bales will be stored on-site for a maximum of six months before being transported to off-site processing facilities. An extension of the storage time limit must be received in writing from the LEA

4 STORM WATER, VECTOR, AND NUISANCE CONTROL

4.1 STORM WATER CONTROL

Overall Facility storm water management activities are described in the Storm Water Pollution Prevention and Control Plan (SWPPP). The plan's three major objectives are:

- To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges (NSWDs) from the facility
- To identify and describe minimum and site-specific advanced best management practices (BMPs) implemented to reduce or prevent pollutants in storm water discharges associated with industrial activities and in authorized NSWDs in a manner that reflects best industry practice, considering technological availability and economic practicability and achievability
- To identify and describe conditions or circumstances that may require future revisions to the SWPPP

Storm water at the JPO facility flows into the lined compost ponds. The Hay Road recyclables storage area is covered by a roof to minimize storm water contact. Figures 2-4 show drainage at the facility.

The Facility is currently implementing numerous Best Management Practices to limit impacts to storm water (i.e., general housekeeping, maintain heavy equipment to ensure no oil or fuel leakage occurs, clean up spills or leaks from vehicle traffic immediately, litter control, etc.). In addition, the SWPPP will be updated to include the following BMPs when baled recyclable materials are on site:

- The stacked bales will be stored on pallets and over tarps to limit storm water contact and control potential liquids from bales
- Bales will be covered with tarps that overlap the base tarp
- Regular Facility cleaning, housekeeping and litter control will be maintained
- First in/first out material handing process
- Where necessary, berms or other structures will be placed to divert storm water from the stored bales

4.2 VECTOR PREVENTION

A primary aspect of the current Facility vector control program is elimination of conditions that attract vectors. As outlined in the Bird Control Plan, current practices to prevent birds at the Facility include the use of a falconer. At the baled recyclables storage areas vectors such as flies, rodents, and birds, will be minimized by the non-putrescible nature of the baled recyclables. In addition, when baled recyclables are at the facility the following vector control methods will be in place:

- Bales will be tarped to limit flies and birds from accessing the material
- Bales will be stored on pallets and over tarps to limit harboring rodents and to allow for easier cleaning if necessary.
- Regular Facility cleaning, housekeeping and litter control will be maintained
- First in/first out material handing process

- When observed, putrescible material will be removed

4.3 NUISANCE AND ODOR CONTROL

The Facility currently has a Mitigation Monitoring and Reporting Program along with an Odor Impact Minimization Plan in place that details various nuisance and odor control strategies throughout the site. These strategies include periodic on-site inspections to identify nuisance conditions. In addition, when baled recyclable materials are being stored on site, the following measures will be implemented:

- Bales will be tarped to limit moisture in the bales
- Bales will be stored on pallets and tarps to allow for easier cleaning
- First in/first out material handling process
- Regular Facility cleaning, housekeeping and litter control will be maintained
- If offensive odors have the potential to impact off site areas, additional mitigations will be implemented (i.e. removing odorous material and/or bales)
- When observed, putrescible material will be removed

4.4 FIRE HAZARD MITIGATIONS

The Facility has heavy equipment (front loaders, bulldozers, water trucks, bobcats), fire hoses, dedicated fire pump and water tanks, and fire extinguishers on site. When baled recyclables are present at the site, the following fire hazard mitigations will be in place:

- Maximum size of bale stockpiles will be:
 - Length: 105'
 - Width: 40'
 - Height: 12'
- Minimum spacing between piles will be: 50'
- Minimum spacing around the perimeter of the piles will be: 15'

- The piles will be visually inspected daily for potential fire hazards
- The piles will be monitored for temperature once a week.

5 CONTINGENCY PLAN

5.1 OVERVIEW

The Facility implements a variety of safety programs and provisions to ensure the health and safety of its employees. These programs and provisions include:

- Injury Illness and Prevention Program (IIPP)
- First aid instruction for all managers and supervisors
- Proper signage of safety hazards
- Adherence to Cal-OSHA standards and procedures
- Training on the types, identification procedures, and handling methods for the various types of wastes that might be delivered to the facility
- Regularly scheduled safety meetings
- Hazardous Materials Business Plan
- Emergency Response Plan

5.2 EMERGENCY CONTACTS

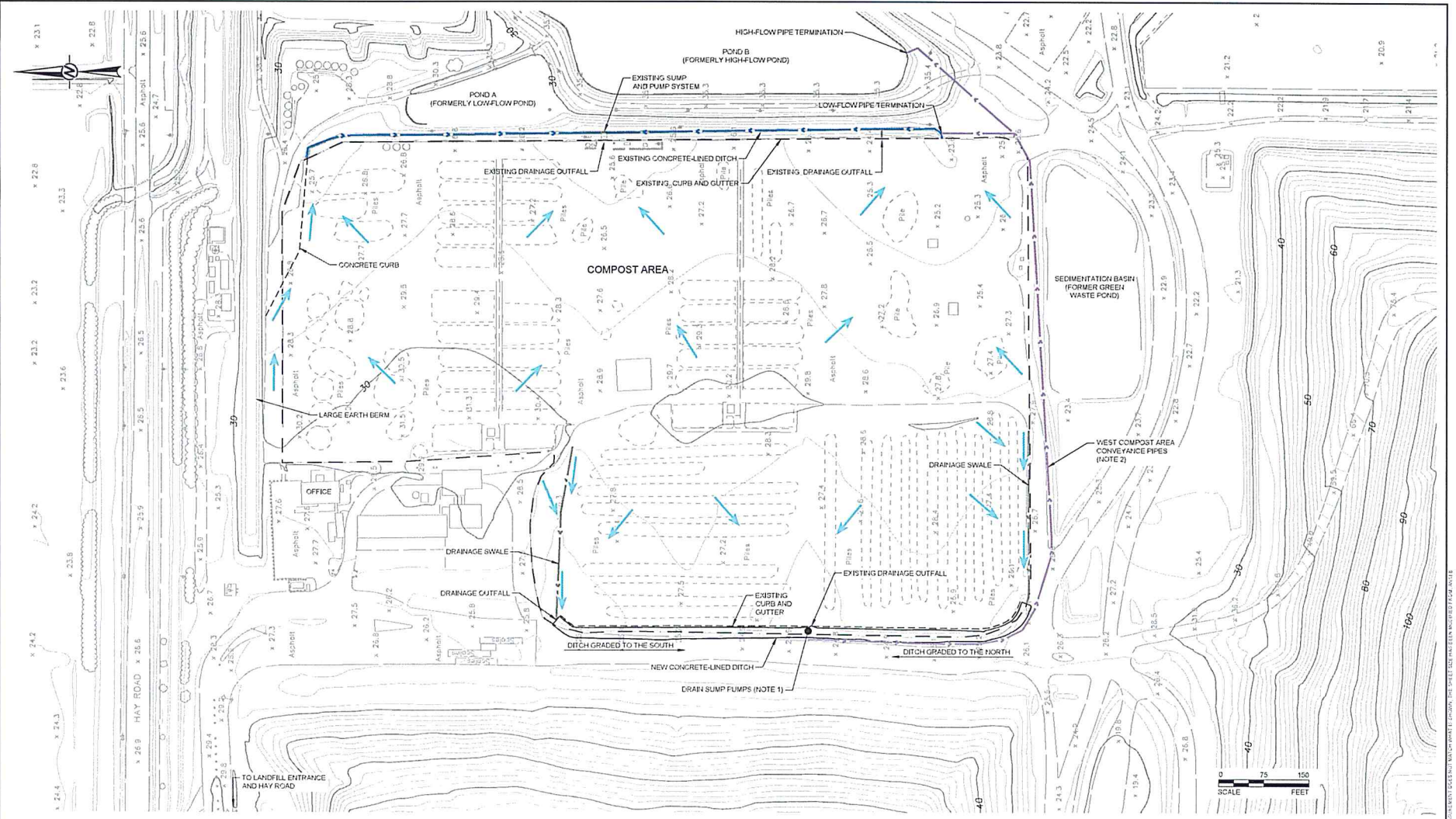
Fire / Medical / Emergencies:	911
Solano County Environmental Management:	707-784-6765

Figures

Figure 1 - Site Diagram

Figures 2 -4 – Drainage Figures

File: J:\projects\1412225\1412225.dwg, 11/14/2014 10:07:21 AM, 1412225.dwg, 11/14/2014 10:07:21 AM, 1412225.dwg



- NOTES**
1. LOW-FLOW PUMP CONSISTS OF A SINGLE 3/4HP PUMP CONNECTED TO 3 IN. DIA. PIPE. HIGH FLOW PUMPS CONSIST OF FOUR 5HP PUMPS CONNECTED TO A 12 IN. DIA. PIPE.
 2. LOW-FLOW 3 IN. DIA. ROUTED TO LOW-FLOW POND. HIGH-FLOW 12 IN. DIA. PIPE ROUTED TO HIGH-FLOW POND.

REFERENCE

1. TOPOGRAPHIC MAP PROVIDED BY TETRA TECH. DATE OF TOPOGRAPHY, APRIL 3, 2014.

- LEGEND**
- APPROXIMATE LIMIT OF EXISTING COMPOST PAD
 - - - CURB AND GUTTER
 - EXISTING DITCH CENTERLINE WITH FLOW DIRECTION
 - PIPING ALIGNMENT WITH FLOW DIRECTION
 - EXISTING SWALE WITH FLOW DIRECTION
 - DRAINAGE FLOW DIRECTION ON COMPOST PAD

CLIENT
RECOLOGY ENVIRONMENTAL SOLUTIONS
235 NORTH FIRST STREET
DIXON, CA 95620

CONSULTANT



YYY-MM-DD 2014-10-30
PREPARED JDR
DESIGN JDR
REVIEW JTK
APPROVED KGH

PROJECT
RECOLOGY HAY ROAD
JEPSON PRAIRIE ORGANICS
COMPOST AREA STORMWATER MODIFICATIONS

TITLE
DRAINAGE MAP

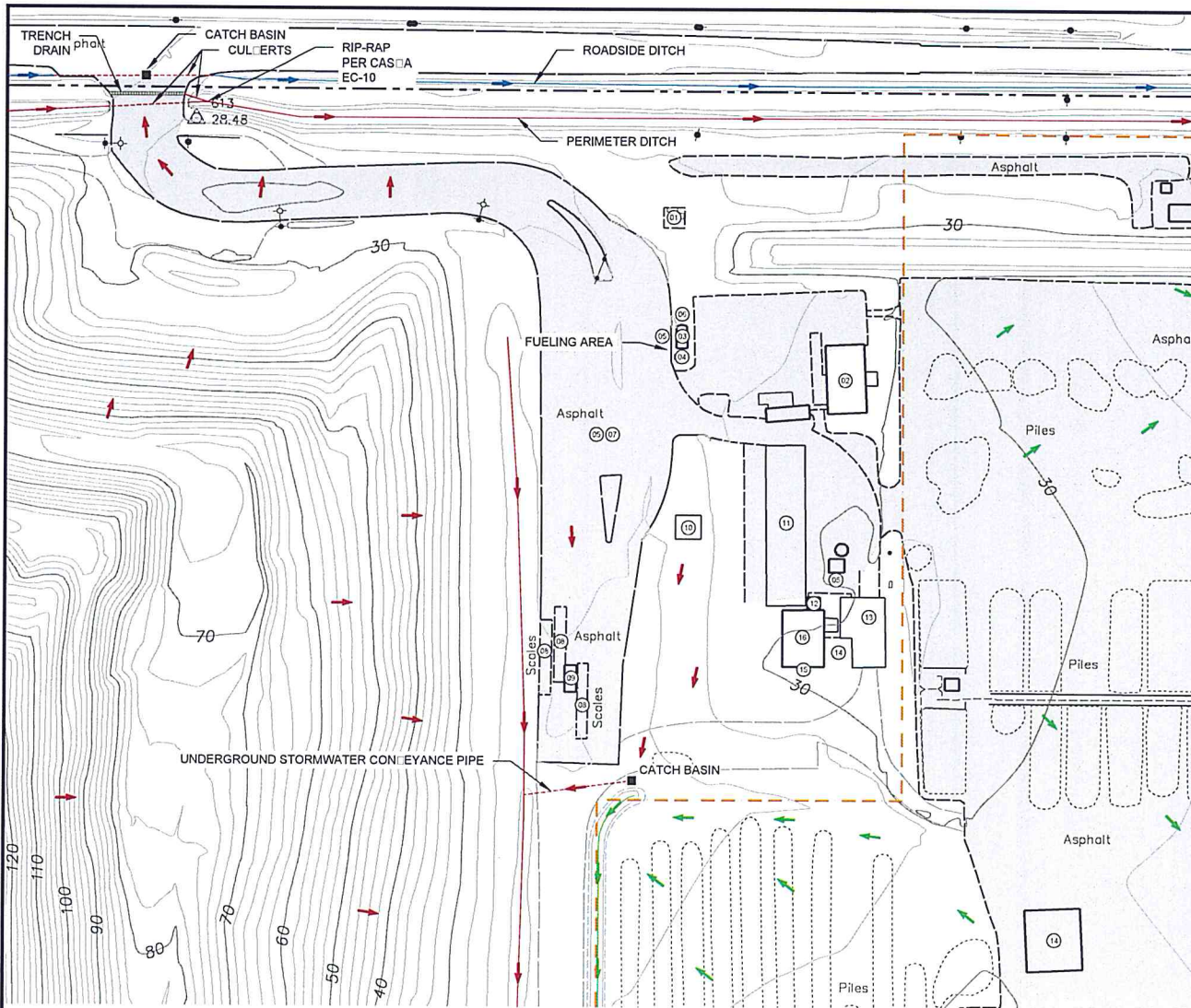
PROJECT No.
1412225

Rev.
0

FIGURE
4

IF THE DOCUMENT DOES NOT HAVE A DATE, THE DATE OF THE LAST REVISION IS SHOWN. THE DATE OF THE LAST REVISION IS SHOWN.

Drawing file: 015 SITE MAP_OCTOBER UPDATE.dwg Oct 28, 2015 - 2:28pm



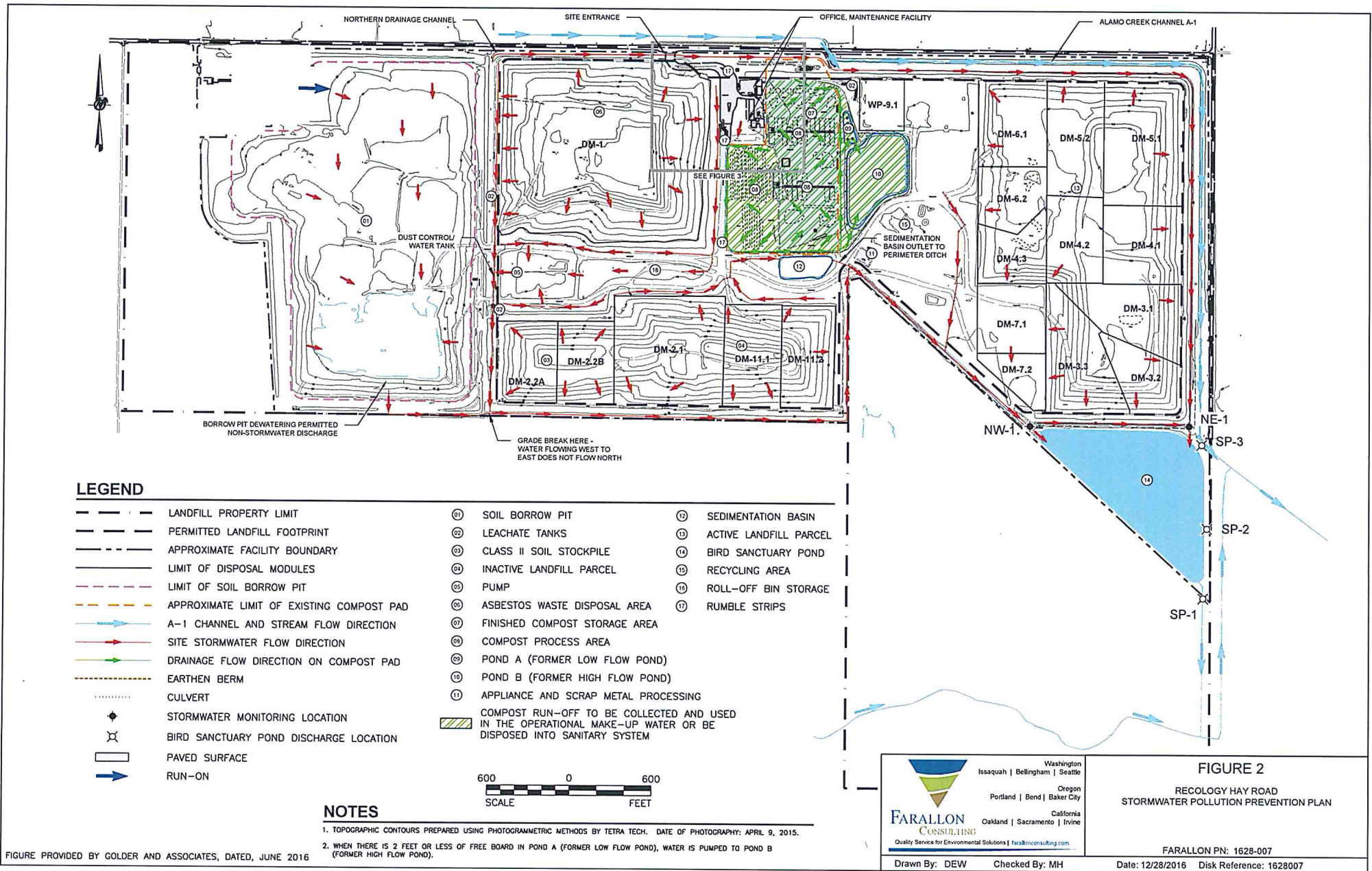
NOTES

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY TETRA TECH. DATE OF PHOTOGRAPHY: APRIL 9, 2015.



PROJECT No. 1404409 FILE No. 015 SITE MAP CAD/JDR DATE 06/25/15

FIGURE 3
RECOLOGY HAY ROAD
SITE MAP DETAIL





**Recology Hay Road/
Jepson Prairie Organics**
6426 Hay Road
Vacaville, CA 95687

= 105' x 40' or approximately 960 bales per section

= 100' x 35' or approximately 800 bales