

RECEIVED

SEP 23 2010

NAPA CO. CONSERVATION DEVELOPMENT & PLANNING DEPT.

EASEMENT REPORT

FOR

ROGERS WINERY

PROJECT LOCATED AT

970 CONN VALLEY ROAD ST. HELENA, CA 94574

> County: NAPA APN: 025-180-061

> > JULY 15, 2010

PREPARED FOR REVIEW BY:

NAPA COUNTY DEPARTMENT OF PUBLIC WORKS 1195 THIRD STREET, ROOM 201 NAPA, CA 94559

Documents Included:

272 O.R. 392 2005-0049053 65 Deeds 82

Ivar Otto Asplund Saima Ilona Asplund

Executed in the presence of J. H. Thorpe Witness Consideration not more than \$100.00

STATE OF CALIFORNIA)

COUNTY OF NAPA

On this 7th day of January A.D. One Thousand Nine Hundred and Forty-seven, before me, Beverly

Doughty, a Notary Fublic in and for said County, residing therein, duly commissioned and sworn, personally appeared J. H. Thorpe, known to me to be the same person whose name is subscribed to the within instrument, as a witness thereto, who, being duly sworn, deposed and said, that he resides in the County of Napa, State of California, that he was present and saw Ivar Otto Asplund and Saima Ilona Asplund (personally known to him to be the persons described in and who executed the said instrument, as parties thereto), sign and execute the same, and that, at their request, he, the said affiant, thereupon subscribed his name as a witness thereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office, in the said County of Napa, the day and year in this certificate first above written.

(SEAL)

Beverly Doughty Notary Public in and for the County of Napa, State of California

My commission expires April 6, 1947

A true copy of an original recorded at Request of Ry Express Agency, Aug 22, 1947 A.D. at 1 min. past 9 o'clock A.M.

воок Ш

A.R. L5311 \$1.20 Paid

Dottie C. Wright County Recorder

By lance ME action Deputy Recorder

WILLIAM D. BROWN

TO

William D. Brown, a married man, with his separate property hereinafter called PACIFIC GAS AND ELECTRIC CO. etal first party, does hereby grant unto Pacific Gas

and Electric Company, and The Pacific Telephone and Telegraph Company, California corporations, hereing ter called Pacific Cas and Pacific Telephone, respectively, when referred to individually and second parties when referred to jointly, the right and privilege of erecting, inspecting, replacing, maintaining and using a single line of poles and such wires as second parties shall from time to time suspend therefrom and all necessary and proper guys, anchors, crossarms and braces and other fixtures, for transmitting and distributing by Pacific Gas of electric energy and for rendering by Pacific Telephone of telephone and telegraph service, respectively, together with a right of way therefor, over and across those certain premises situate in the County The routes of said poles shall be as follows, viz:

- 1. Beginning at a point in the westerly boundary line (marked by a fence) of said premises distant thereon 119.5 feet northerly from the southwest corner of the northwest quarter of the northwest quarter of said section 28 and running thence south 67° 011 east 992.2 feet; thence south 55° 31' east 415.4 feet; thence south 59° 58' east 678.5 feet; thence south 10° 31' east 261.9 feet; thence south 34° 48' east 300.0 feet; thence south 6° 38' west 60 feet, more or less, to the northeasterly boundary line of said 1.078 acre parcel of land.
- 2. Beginning at the most easterly point in the route hereinbefore described and designated I and running thence south 54° 48' east 567 feet, more or less, to the southeasterly boundary line of said premises.
- 3. Beginning at a point in said premises distant south 6° 38' west 413.7 feet from the most easterly point in the route hereinbefore described and designated I and running thence north 6° 38' east 60 feet, more or less, to the southwesterly boundary line of said 1.078 acre parcel of land.
- 4. Beginning at a point in the route hereinbefore described and designated I distant thereon 2348.0 feet southeasterly from the northwesterly terminus thereof and running thence north 39° 00' west 150 feet, more or less.

Pirst party also grants to second parties and each of them the right to trim any trees along said poles and wires whenever considered necessary for the complete enjoyment of the rights hereby granted.

The provisions hereof shall inure to the benefit of, and bind, the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF first party has executed these presents this 9 day of Sept, 1946.

William D. Brown

Executed in the presence of J. H. Thorpe Witness.

Consideration not more than \$100.00

STATE OF CALIFORNIA

COUNTY OF MAPA

On this 7 day of January A. D. One Thousand
Nine Hundred and Forty-seven, before me, Beverly Doughty

a notary Public in and for said County, residing therein, duly commissioned and sworn personally appeared J. H. Thorpe, known to me to be the same person whose name is subscribed to the within instrument, as a witness thereto, who, being duly sworn, deposed and said, that he resides in the County of Napa, State of California, that he was present and saw William D. Brown (personally known to me to be the person described in and who executed the said instrument, as party thereto), sign and execute the same, and that, at his request, he, the said affiant, thereupon subscribed

A true copy of an original recorded at Request of Ry. Express Agency, Aug 22, 1947 A.D., at 2 mins. past 9 o'clock A.M.

COMPARED

воок <u>U.S.</u> INBT. **E.O**. A.R. L5312 \$1.40 Paid

Dottie C. Wright County Recorder

By Tanie Machine Deputy Recorder

COUNTY OF NAPA

TO"

PACIFIC GAS AND ELECTRIC GO.etal

County of Naps, hereinafter called first party, does hereby grant unto Pacific Gas and Electric Company, and The Pacific Telephone and

Telegraph Company, California corporations, bereinafter called Pacific Gas and Pacific Telephone, respectively, when referred to individually and second parties when referred to jointly, the right and privilege of suspending, inspecting, replacing, maintaining and using such wires as second parties shall from time to time deem necessary for transmitting and distributing by Pacific Gas of electric energy and for rendering by Pacific Telephone of telephone and telegraph service, respectively, together with a right of way therefor, over and across those certain premises situate in the County of Napa, State of California, which are described as follows, viz.:

That certain 0.58 acre parcel of land, situate in section 34, township 8 north, range 5 west, N. D. B. & M., described in the deed executed by Elizabeth B. Shand to County of Napa dated June 30, 1945 and recorded in Volume 228 of Official Records at page 287, records of said Napa County.

The route of said wires shall be as follows, viz.:

Beginning at a point in the southeasterly boundary line of said premises distant thereon 120.0 feet southwesterly from the most easterly corner of said premises and running thence south 60° Ol's west 140 feet, more or less, to the southwesterly boundary line of said premises.

First party also grants to second parties and each of them the right to trim any trees along said wires whenever considered necessary for the complete enjoyment of the rights hereby granted.

The provisions hereof shall inure to the benefit of, and bind, the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF first party has executed these presents this 10th day of September, 1946.

Consideration not more than \$100.00

County of Napa

By Thomas Maxwell
Its Chairman of Its Board of
Supervisors
Attest: R.A. Dollarhide
County Clerk

Executed in the presence of J. H. Thorps Witness-

STATE OF CALIFORNIA) 88. On t

On this 7th day of January, in the year One Thousand

Order No: 115861-1 REC FEE Recorded deeds/macveagh.egd Official Records County of Napa When recorded mail to: JOHN TUTEUR Assessor Clerk Record ROBERT P & JUDITH J SCULATTI FRANK R & JOANN SCULATTI 01:41PM 30-Nov-2005 | Page 1 of 3 THE ESTATE OF CAREY L. SCULATTI 701 ROSSI ROAD ST HELENA CA 94574 For Recorder's Use Only MAIL TAX STATEMENTS TO: THE UNDERSIGNED GRANTOR DECLARES DOCUMENTARY TRANSFER TAX \$ Computed on the consideration or value of property conveyed; OR SAME AS ABOVE Computed on the consideration or value less liens or encumbrances remaining at time of sale. GRANT OF EASEMENT FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, ELLEN MAC VEAGH RUBLEE, as Trustee of The MacVeagh Family Trust, under Declaration of Trust dated May 2, 1990, hereby GRANT(S) to ROBERT P. SCULATTI and JUDITH J. SCULATTI, husband and wife, FRANK R. SCULATTI and JOANN SCULATTI, husband and wife, and THE HEIRS OR DEVISEES OF CAREY L. SCULATTI, Case No. 26-06120, Superior Court State of California, County of Napa the real property in the County of Napa, State of California, described as LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF AND DESIGNATED EXHIBIT "A" 2005, before me, appeared ELLEN MAC VEAGH RUBLEE, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

Sanchette)

SUSAN A. BLANCHETTE

My Commission Expires June 23, 2009

WITNESS my hand and official seal.

Notary Public

Signature

2005-00490<u>5</u>

EXHIBIT "A"

An Easement, not to be exclusive, as an appurtenance to the parcel of land set forth as "Dominant Tenement" herein below, for laying and maintaining water pipelines, being 10 feet in width, lying 5 feet at each side of the following centerline:

COMMENCING at the northeast corner of the tract of land firstly described in the deed to Elwood Johnson, et Ux., recorded on February 19, 1949 in Book 301 of Official Records at Page 364 in the office of the Napa County Recorder; thence along the northeasterly side of said tract Northwesterly 2.9 feet to the intersection with the center of an existing PVC pipeline, said intersection being the TRUE POINT OF BEGINNING of this easement; thence along the center of said pipeline North 54°54′ East 39.9 feet, North 57°00′ East 10.6 feet, North 38°45′ East 19.2 feet, South 66°08 East 45.1 feet, South 45°31′ East 50.9 feet, South 29°15′ East 40.0 feet, South 28°21′ East 40.4 feet, South 34°28′ East 37.4 feet, South 43°31′ East 42.0 feet, South 47°52′ East 38.6 feet, South 43°42′ East 40.4 feet, South 44°46′ East 47.2 feet, South 67°05′ East 23.6 feet, South 68°48′ East 20.7 feet, North 57°44′ East 49.3 feet, North 47°06′ East 8.6 feet, North 52°42′ East 139.2 feet, North 57°06′ East 39.0 feet, North 52°14′ East 85.5 feet, North 46°09′ East 18.8 feet, North 43°31′ East 12.6 feet, North 29°09′ East 67.0 feet, North 25°05′ East 34.2 feet, North 22°35′ East 45.7 feet, North 45°41′ West 38.9 feet, North 17°21′ East 21.5 feet, North 3°54′ West 18.0 feet, North 31°43′ West 19.9 feet, North 48°41′ West 38.9 feet, North 46°32′ West 39.1 feet, North 43°51′ West 37.9 feet, North 10°54′ East 16.8 feet, North 49°35′ West 3.5 feet and North 43°33′ East 7.8 feet to the southwesterly line of the lands of Frank R. Sculatti as described in Book 1260 of Official Records at Page 405, recorded on October 29, 1982 in said Recorder's office.

DOMINANT TENEMENT

PARCEL ONE:

A portion of the southwest quarter of the northwest quarter of Section 27 and a portion of the east half of Section 28, Township 8 North, Range 5 West, M.D.B. & M., described as follows:

COMMENCING at a point from which the quarter section corner on the line between Sections 27 and 28, Township 8 North, Range 5 West, M.D.B. & M., bears the following courses and distances: South 51° 13′ East 28.23 feet and East (23 links) 15.18 feet distant; and running thence from said point of commencement, North 31° 30′ East 582.63 feet; thence North 75° 00′ West 86.82 feet; thence South 52° 18′ West 776.41 feet; thence South 64° 27′ East 240.85 feet; thence South 37° 08′ West 318.54 feet; thence North 76° 49′ East 59.66 feet; thence North 46° 00′ East 432.70 feet to the point of commencement.

PARCEL TWO:

A portion of the southwest quarter of the northwest quarter of Section 27 and a portion of the east half of Section 28, Township 8 North, Range 5 West, M.D.B. & M., described as follows:

COMMENCING at the most western corner of that certain 3.91 acre tract of land described in the Deed to Elwood Johnson, et ux, of record in Book 296 at page 473 of Official Records of Napa County; running thence South 64° 27' East 240.85 feet; thence South 37° 08' West 97.55 feet; thence North 42° 25' West 372.91 feet; thence North 52° 18' East 692.98 feet; thence South 75° East 164.75 feet; thence South 52° 18' West 776.41 feet to the point of commencement.

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END OF DOCUMENT

PARCEL THREE:

Commencing at a point from which the most western corner of that certain 3.91 acre tract of land conveyed by Wm. Brown, et ux to Elwood Johnson by Deed of record in Book 296 at page 473 of Official Records of Napa County bears North 66° 48' East 705.05 feet; and thence North 64° 27' West 0.34 feet distant; and running thence from said point of commencement, North 23° 12' West 2.50 feet; thence South 66° 48' West 15.00 feet; thence South 23° 12' East 15.00 feet; thence North 66° 48' East 15.00 feet; thence North 23° 12' West 12.50 feet to the point of commencement.

to the wife the of the enderstructure therenges with the Compared words for him of many of many on the a reference that the Sand and direct Chanson to there pours new of the reliebe of short is afrend seconds As 18 tress thereog. I have hereinte not my land and appered to sent of said Bout Of the Country of Looker the day and you in this vertificate first whose willen. HIE. Brewer County Clark. and to Coperio Marky Sunt Superior Country Sould South thanky We have the grand Congrant securded at requiring I'm forces hick 19 11.2. 19 can be horis Jast 4 Colock P. M 10 6 Désucer de Remoter 3/20/1900 By lot Rookwell Defrely 65 D 82 Theo a Bell Es al. This Indulure made the 6th day of February in the year one thousand Vine hundred, Belween Theo a. Bell and John Sheperd Erals august Beretta of the County of Napa . State of Coalifornia party of the first part, and John Sheperd. H. Januar. H.A. Jubbs , a f downsend and & f. Joursand parties of the Second parts 1 lootnosseth :-That the party of the first parts for and in Consideration of the Sum of for 100 dollars in Sawful snoney of the united States. to them in hand part by the Part parties of the becard faut the secret whereof is hereby notenowledged do by these present frant baryon Sell convey senuse release and forcon quitolain unto the Saw parties of the Broand part and to their heirs and assigns forever, all their right title interest estate Caine and demand look at law and is south and as well in jessession as in expediency of the Said harty of the first part of son or to destan right of way thing feel in with for soud purposes through the real property commonly known as the " allich Clace" in com bally County and State upresaw the rootherly line of which right of way long furtionlaily described in Exhibit "A" hereunds allached and made apart herej. To have and to hold the said right of way unto the Said party of the Second hast theter hers and arright frever In Witness Where of the parties of the first part have hereunts bet their hands and Such the day and year first above witten. Sheo W. Bell august Beretta State of Coalifornia Couthis 6 day of rebruary on me of Public in and for County of rapa (38 hundled before me beo W here, a Notary Public in and for Swom, personally appeared august Besetta Known to me to bethe person whose name is Subscribed to the within instrument and he acknowledged that he granted Seal of my Coffice in the Journ of St Halena. County of Nopa the day and year in this Certificate first above louten Seo W. Jee Notary Public In and for Napa County State of Coalifornia State of California On this 7th day of debruary in the year One Thoward . Name Hundred before me Colw & Bell a Notary Public in County of Napa

and for the County of rapa State of Colomna periding therein duly Commissioned and Swam permatly appeared Theo a Bole Known to me to be the person whose mane is Subscribed to the routhen instrumed and he duly ack wouldged to me that he secuted the Same,

In witness where, I have hereunto set my hand and affixed my Officeal Seal as my Office in the city of Napa county of rapu the day and year in this deliticale first above written.

Eseal 3

Edu S. Bell rotary Public In and for Said Nafia County, State of Cealifines

_ Ophibit "A" _ Beginning on the Northerly Side of the County Wood in Conn balley, and about 4.10 chains measured along the side of Said road loesterly from the South touter Corner of E. Burdick's land at a post of the fence marked "" thence cunning on the left hand Side of the road Setting posts marked Roat the angle points and termisine South 70 12 " Cast 3.94 chains to a point-40 gest Northerly of the North Side of the County. Road and 30 feet distant evesterly from the boundary of the Burdick and Alsif tracts of land : thence running North, 44 h. East parallel with Said Burdick boundary and 30 feet distant therefrom 3.34 chaus; thence North 23" Tast 1.04 chains; N. 30/2" Es, at 50 links (cross Com creek 2.13 chains to a point on Orchard 20 feet loest of the right bank of Conn Hollow Creek! N. 34h Co 2,34 chairs N: 2014 Estil chairs N 60 ft & 2, 54 chanis to a wire fince on the wort bank of Sand Creek, being 30 feet distant & 38/4 6 1.03 chains: N by & go links to Soud Work-bank: N, 58 6 Cross Soud Clarky, 14 to a point 30 feet to the left of Sand Burdock boundary, No 17 12 East parallel with bar boundary I chain to a point oppositely Section Come between 27 and 28: N 311 5. harallel to said boundary 9, 50 chains to the end of bally band : N. 31/2 Co. Crossing Said Creck three mies 3:14 Chams N. 184 6 2.20 chame to point to feet tothely The creek bank (N. 3) . Co. 1.44 chans N. 53/4 E of 1.00 chave cross particle Jenet 1.78 chamo to a Stide: N. 84 /2° & 1.17 chamo w. X. 77/2° 6. 1.11 to the south Sede a White Oak live 12 inches diamder; N. 67 /9 6 1,26 chrons 1,294 6 1,70 chan n by Ty Co. 1.28 chams force post to the right on the bank of the creck 30 feet distant : 5.87/2 6. 1,84 charis: N.83° 6 2.90 chanis for ex to the right 50 feet & 54% 8.2.86 chains N. 674 6. 2.48 chans force to the Sight 30 feet 1 N. 38/4 C. 2.58 chams to foot of grade fuce 68 links to the sight N. 124 & 1.52 chains following the grade up: r. 40 3/4° 6 2.06 chavis N. 5.3 1/4 " D. 1.19 chavis : N 3 8/4° Ca 2.00 chan to point 20 year to the left of the grade line: N. 6. 5. 1:00 chamis, Creek bout to the right 50 lentes N. 414° 10. 3.70 chains. Creek bank to the right Go but 1. 12 sut 32 Chanis N. 844 ° W. 1.84 chanis : N. 19 ° G. 2.27 chanis N. 6° & 2,44 chanis to the South boundary of H. Jubb; Land and To luke west of the Northwest Corner of the Carron tract of land. Containing 1. 68 acres of balley land and 2.79 acres of Hill land and one mile and I rods in length, less Ilniks, Surveyed by Wa. Preice. Jan 27 - 1900

50 centen Namp cancelled

A mie doped an Oxiginal seconded at requesty W. F. & Charch 20 a. D. 1900.



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SEP 23 2010

NAPA CO. CONSERVATION DEVELOPMENT & PLANNING DEPT.

HYDROLOGY & DRAINAGE REPORT

FOR

ROGERS WINERY

LOCATED AT

970 CONN VALLEY RD ST. HELENA, CA 94574

> County: NAPA APN: 025-180-038

> > JULY 15, 2010

PREPARED FOR REVIEW BY:

COUNTY OF NAPA DEPARTMENT OF PUBLIC WORKS 1195 THIRD STREET, SUITE 201 NAPA, CA 94558



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Appendix 1 - Vicinity Map

Appendix 2 – Site Map

Appendix 3 – Pre-Construction Hydrology Map

Appendix 4 - Post-Construction Hydrology Map

Appendix 5 – SCS TR-55 Curve Number Table

Appendix 6 – Pre- and Post-Construction Hydrographs



1. Report Description & Background

i. Introduction

The purpose of this report is to analyze the site hydrology associated with the proposed development of a new 30,000 gallon winery in the Napa Valley. The winery is located at 970 Conn Valley Rd, St. Helena, California. The property consists of 53.48 acres, and the Napa County Assessor's Parcel Number, or NCAPN, is 025-180-038. See Figure 1 for the overall site location.

This report examines the site watershed storm water runoff patterns and theoretical volumes for a 10-year, 24-hour storm event. Two facets of the proposed winery will be analyzed with regard to the site hydrology. First, the proposed site is located below a 10.8 acre watershed. The theoretical quantity of storm water runoff derived from this watershed will be determined and evaluated against the flow capacity of an existing berm proposed to protect the existing site by conveying the storm water runoff away from the winery site. The second step is to assess and compare the post-construction storm water runoff flows with the pre-construction storm water runoff flows of the watershed within the proposed winery site. To ensure the storm water flow volumes are not increased due to this project, the site parameters will be analyzed for both conditions, and detention features will be implemented as required for mitigation.

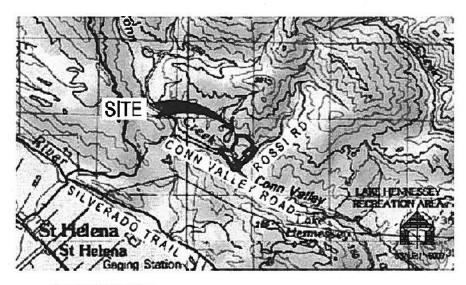


Figure 1: Site Location



ii. Methodology

The first step in completing the hydrologic analysis of the proposed winery is to ascertain the quantity of rainfall for specified design storm events. A common practice in rainfall-runoff analysis is to develop a synthetic rainfall distribution to use in lieu of actual storm events. The intensity of rainfall varies considerably during storm events, as well as with geographic location. Therefore, the synthetic rainfall distribution model must account for both of these variables to appropriately recreate a storm event.

The National Resource Conservation Service (NRCS, formerly the SCS) developed four synthetic 24-Hour rainfall distributions types (I, IA, II, and III) from National Weather Service duration-frequency data. Each rainfall distribution type represents various regions of the United States; each modeling rainfall distributions typical to each geographic area. The design rainfall for this site was derived using the SCS (NRCS) Type IA 24-Hr Storm Distributions as this project site is located within the geographic boundaries of the specified Type IA rainfall distribution. The SCS 24-hour rainfall distributions are shown in Figure 2, with the corresponding geographic boundaries shown in Figure 3. The design rainfall for a ten year storm event (a storm event with a magnitude predicted to occur one time every ten years) in the Napa Valley using this method is 6.1 inches rainfall over 24 hours. The design rainfall for a two year storm event (a storm event with a 50% chance of occurrence within any given year) in the Napa Valley using this method is 4.5 inches rainfall over 24 hours. Combined with the site time of concentration and the surface curve numbers, the theoretical peak flows and the total storm runoff volumes are able to be estimated.

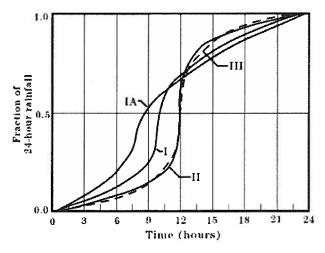


Figure 2: SCS 24-Hour Storm Distributions





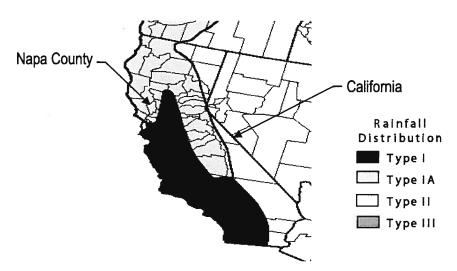


Figure 3: SCS Rainfall Distribution Geographic Boundaries in California

Within a given watershed basin, the time of concentration is the overland travel time it takes for a rain water drop to travel from the most remote point in the watershed to the point of interest (also known as the concentration point). This rain water drop concentrates with other droplets to become storm water runoff. The storm water runoff travels through the watershed as sheet flow, shallow concentrated flow, open channel flow, or any combination of these depending on the site specific topography. The site characteristics for each basin are defined and the type of overland travel by the storm water runoff is determined. The time of concentration is determined by summing together all of the individual runoff travel times within each sub basin.

The SCS TR-55 curve number is another variable used in determining the hydrologic quantities of watersheds. It is a simple, efficient, and commonly used method for determining the fraction of precipitation depth that will translate into watershed basin runoff. The curve number is based on the drainage basin area's hydrologic soil group, land use, and hydrologic conditions. A high curve number is used for impervious surfaces, and causes nearly all of the precipitation to translate into runoff. On the other side of the spectrum, a low curve number value such as for sandy soils causes the majority of the precipitation to be captured as infiltration and not translate into runoff. Curve numbers range in value from 0 to 100. See Appendix 5 for the TR-55 Curve Number Table.



iii. Topographical Data

The topographical data used to define the on-site winery watershed was derived via site ground surveys performed by Albion Surveys, St. Helena, CA. The site surveys were performed in March of 2010.

The upstream watershed was derived using the 2007 Napa County GIS topographical data, which is an approximate representation of the site topography.

2. General Watershed Description

The watershed upstream of the winery site is the resultant of two topographical conditions. Two hillsides of 20-30% slopes are located approximately 1,000 feet upstream of the proposed winery site, concentrating storm water flow and releasing into vineyards. The vineyards are set on slopes of 5-10% with row spacing of approximately 8.0'. The storm water travels through the vineyards and meets an existing 1.0' berm directly upstream of the winery site.

The on-site winery watershed is located at the base of the upstream watershed, and is currently developed as a residential enclave with a detached garage, barn, storage building and guest homes. The changes to the winery watershed due to the proposed site plan are located in Appendix 4.

A site evaluation was performed on June 15, 2010 by Delta Consulting and Engineering of St. Helena to determine the soil properties on the site. During the site evaluation, five test pits were excavated at the winery site and in the vineyards upstream on the site. The soil was consistent in all five test pits, with sandy clay being the predominant soil texture. As the soil is a mixture of clay and sand, some percolation does occur during runoff, yet the high clay content limits the quantity of runoff infiltrating into the ground.

3. Upstream Watershed Analysis

The storm water runoff derived from the upstream watershed is currently deterred and redirected around the proposed winery site by an existing 1.0' tall berm. To verify the existing berm is sufficient to withstand the demand of storm water derived during the 10-year, 24 hour storm, a model was created and tested in the hydrologic analysis software StormNet. The Napa County GIS topographical data was used to create the topographic parameters of this watershed. The watershed was divided into two distinct sub-basins. Sub-basin 1 extends outside of the property line to the peak of two neighboring hills. This sub-basin consists of four



(4) acres with approximately 25% slopes. The second sub-basin is located between the winery watershed and sub-basin 1, and is composed of vineyards with an average slope of 8%.

The results of the model show the berm is capable of diverting the entire quantity of storm water around the proposed winery site. However, according to the model, the berm capacity is at 98% during the storm. Therefore, storms larger than the 10-year, 24 hour storm will have a high chance of overtaking the berm and entering the winery site. In this case, the proposed grading of the winery site will convey the excess water through the site and into proposed site BMP's described in Section 4, Subsection iii of this report.

4. Pre- and Post- Construction Analysis

i. Winery Watershed

According to the Napa County Post-Construction Runoff Management Requirements, "Post-development runoff volumes shall not exceed predevelopment runoff volumes for the 2- year, 24-hour storm event." After hydrologic analysis, if the post-project runoff volume exceeds the pre-project runoff volume, the difference in the two volumes must be reduced on-site and released from the subject parcel at the pre-project volume.

As an added factor of safety, the design rainfall event used to analyze the pre- and post-project flows is the 10-year, 24 hour storm event. This synthetic storm produces a total of 6.1 inches per rain in 24 hours. The winery watershed is 1.23 acres including buildings, roads, and parking area.

ii. Pre-Construction Analysis – Winery Watershed

The pre-construction condition of the winery is developed as a residential enclave. Site features include an existing stone ghost winery building, gravel access road, grassy areas, multiple buildings, gravel patio areas, and designed landscaping. The soil is a combination of clays and sands with low permeability. A composite curve number of 86.32 is used for analysis. The runoff will be conveyed to the outlet point via shallow concentrated flow over a maximum length of 577 feet, with slopes of 4.6% to 5.3%. With these parameters, the time of concentration for the pre-construction winery basin is 3.93 minutes. This produces a peak storm runoff



flow of 1.46 cubic feet per second. The pre-construction hydrology map is shown in Appendix 3.

iii. Post-Construction Analysis - Winery Watershed

The overall site improvements for the proposed winery are relatively minor. The existing gravel access road will be paved with an impervious all weather surface, a new covered winery crush pad will be constructed, and five impervious parking spaces built. Out of the total 1.23 acre winery watershed, 0.17 acres will be converted to impervious surfaces. The surface runoff derived during storm events is designed to sheet flow into two proposed grassy-lined swales. The runoff will then be released into rock energy dissipaters and sheet flow across local vineyards. The grassy-lined swale, rock energy dissipater, and the natural drainage system of the vineyards are designed to allow for infiltration, retard the flow of the runoff, and filter the storm water runoff prior to finally releasing into Conn Valley Creek.

The additional site features in the post-construction site plan alter the parameters of the winery watershed. Due to the increase in impervious area, the composite curve number increases from 86.32 to 87.56. However, the time of concentration remains constant from the pre-construction site plan to the post-construction site plan as the higher runoff coefficient is offset by the rock energy dissipaters. Overall, the peak storm water runoff flow increases from 1.46 cubic feet per second to 1.5 cubic feet per second due to the site improvements.

The post-construction storm water runoff flow is greater than the pre-construction runoff flow by 0.04 cubic feet per second. As the increase is minimal, the excess storm water flow is able to be reduced without requiring detention features. The grassy lined swales will promote infiltration of the runoff into the ground. The rock energy dissipaters will reduce the flow of the runoff and disperse the runoff into the existing vineyards, which is the existing natural drainage course for the site.

4. Conclusion

During a 10-year, 24 hour storm event, the winery site should be protected from flooding by an existing 1.0' berm. In the proposed site plan, the winery will continue to utilize the existing berm to divert the storm water around the winery site.



Construction within the winery site itself will create an additional 0.17 acres of impervious areas in the winery watershed. However, this increase in impervious area only produces an addition of 0.04 cubic feet per second of peak runoff. This slight increase is able to be mitigated for without the use of on-site BMP features as described in this report.

APPENDIX

Appendix 1 – Vicinity Map

Appendix 2 – Site Map

Appendix 3 – Pre-Construction Hydrology Map

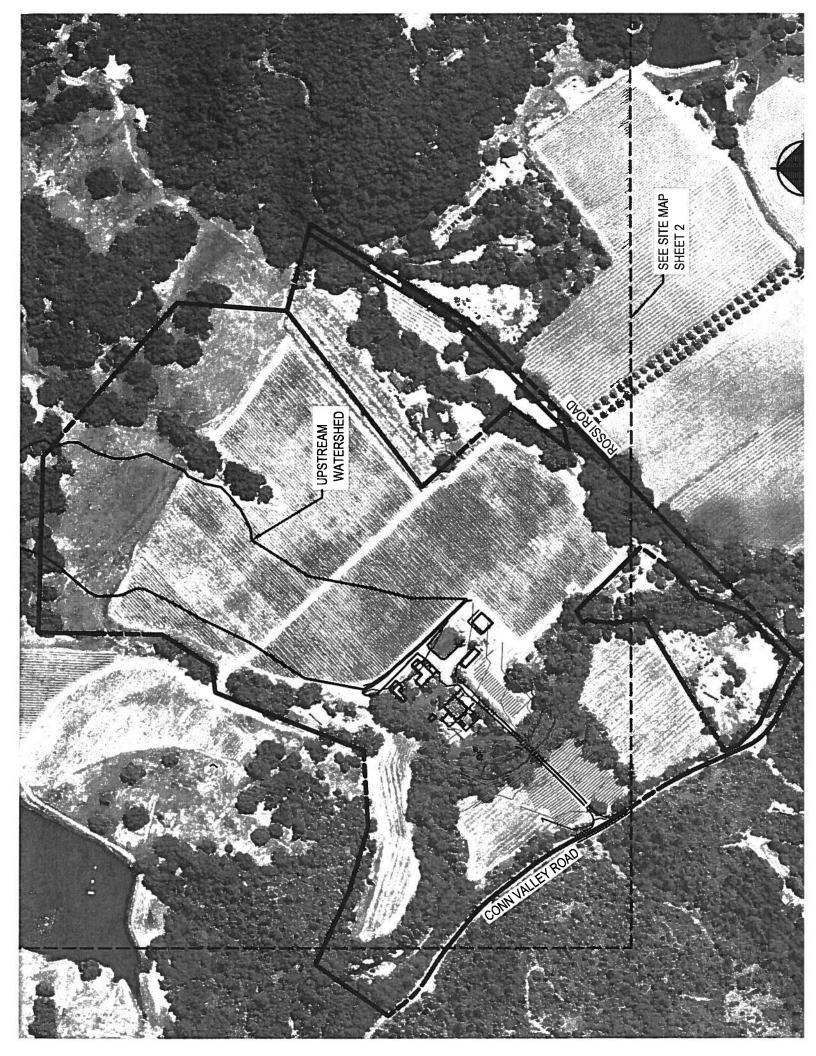
Appendix 4 – Post-Construction Hydrology Map

Appendix 5 – SCS TR-55 Curve Number Table

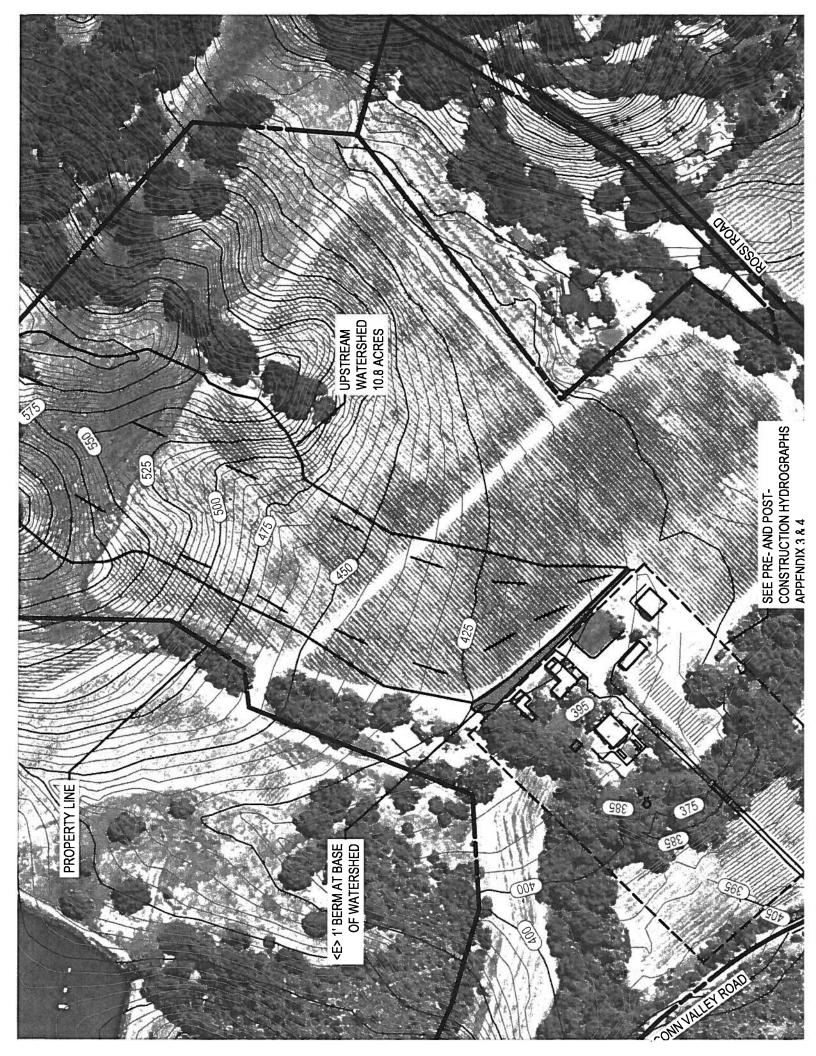
Appendix 6 – Pre- and Post-Construction Hydrographs

DELTA CONSULTING & ENGINEERING of st. Helena

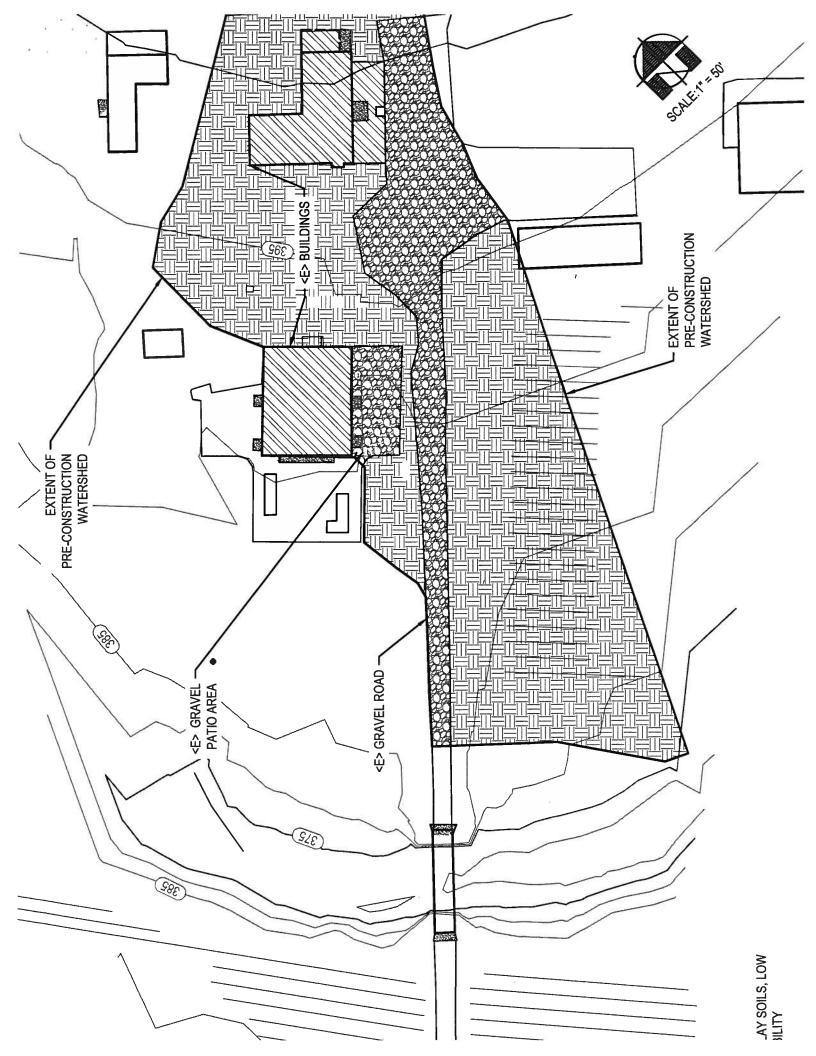




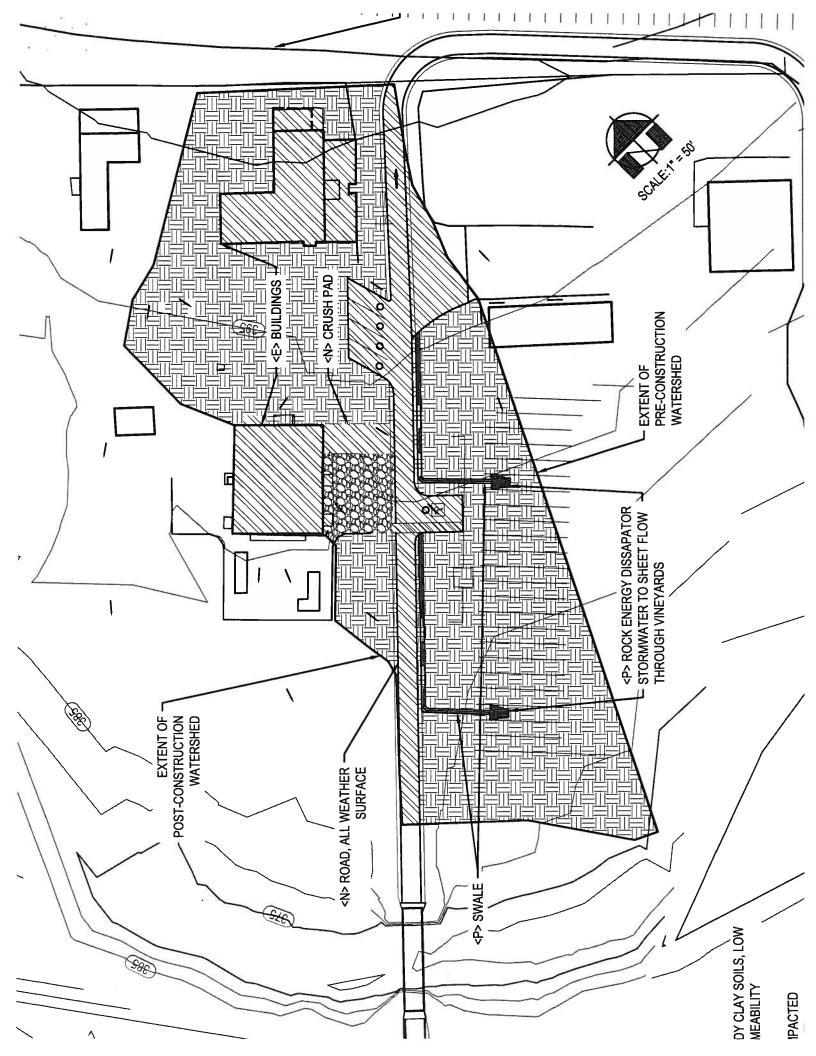
















Appendix 6 TR-55 Curve Number Table

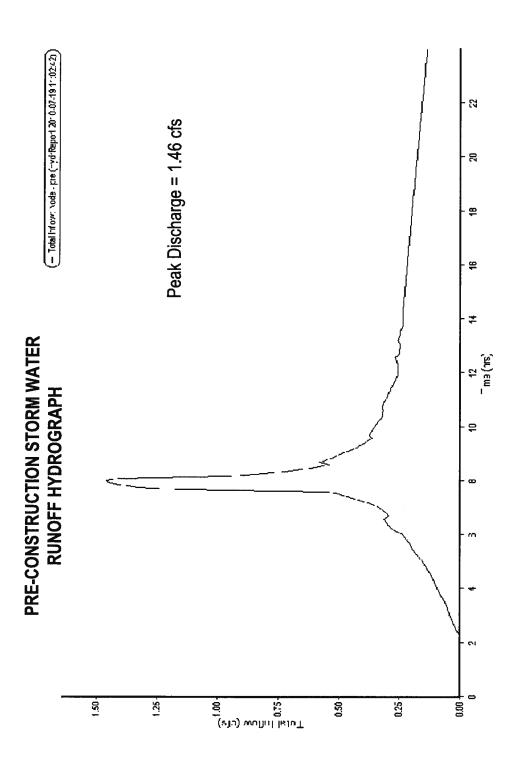
Description	Condition	Α	В	С	D	Condensed Description
FULLY DEVELOPED URBAN AREAS	Vegetation	†	Ť-	Ť	Ť	
Open space (lawns, parks, etc.)		1				
grass cover < 50%	Poor	68	79	86	89	< 50% grass cover
grass cover 50% to 75%	Fair					50 - 75% grass cover
grass cover > 75%	Good					> 75% grass cover
Impervious Areas	1300	+	 "	 ' 	30	- 7070 BIRDS COVER
Paved parking lots, roofs, driveways	┥	98	98	98	QΩ	Paved parking & roofs
Streets and roads	┥	130	130	130	38	raveu parking & 100is
Paved: curbs and storm sewers	┪	98	00	98	08	Paved roads with curbs & sewers
Paved: open ditches (with right-of-way)	50% imp	_			_	Paved roads with open ditches
Gravel (with right-of-way)	130% IIIIp	_	-	_		Gravel roads
Dirt (with right-of-way)	┥					Dirt roads
Urban Districts	impervious	172	02	0/	103	Dirtroaus
Commercial & business	85% imp	90	02	04	05	Urban commercial
Industrial	72% imp	_	-	_	_	Urban industrial
Residential Districts	7276 IIIIP	101	00	31	33	Orban industrial
(by average lot size)	imponious	┨				
1/8 acre (town houses)	impervious	+		<u></u>	0.5	1/8
1/4 acre (town nouses)	65% impervious	_	-			1/8 acre lots
1/4 acre 1/3 acre	38% impervious					1/4 acre lots
1/3 acre	30% impervious	_	$\overline{}$	_		1/3 acre lots
	25% impervious	-				1/2 acre lots
1 acre	20% impervious	_	_			1 acre lots
2 acre	12% impervious	46	65	//	82	2 acre lots
Western Desert Urban Areas	_	-				
Natural desert (pervious areas only)	_					Natural western desert
Artificial desert landscaping	10. 10. 10.	96	96	96	96	Artificial desert landscape
DEVELOPING URBAN AREA	(No Vegetation)	1_				
Newly graded area (pervious only)	_	77	86	91	94	Newly graded area
CULTIVATED AGRICULTURAL LAND	4	1				
Fallow	_	<u> </u>				
Bare soil		_			_	Fallow, bare soil
Crop residue (CR)	Poor					Fallow, crop residue
Crop residue (CR)	Good	74	83	88	90	Fallow, crop residue
Row crops		\perp			_	
Straight row (SR)	Poor					Row crops, straight row
Straight row (SR)	Good					Row crops, straight row
SR + Crop residue	Poor				_	Row crops, SR + CR
SR + Crop residue	Good					Row crops, SR + CR
Contoured (C)	Poor					Row crops, contoured
Contoured (C)	Good					Row crops, contoured
C + Crop residue	Poor					Row crops, C + CR
C + Crop residue	Good					Row crops, C + CR
Contoured & terraced (C&T)	Poor				_	Row crops, C&T
Contoured & terraced (C&T)	Good	-	$\overline{}$		$\overline{}$	Row crops, C&T
C&T + Crop residue	Poor					Row crops, C&T + CR
C&T + Crop residue	Good	61	70	77	80	Row crops, C&T + CR
Small grain	ļ	Ш				
Straight row (SR)	Poor	_			_	Small grain, straight row
Straight row (SR)	Good					Small grain, straight row
SR + Crop residue	Poor					Small grain, SR + CR
SR + Crop residue	Good					Small grain, SR + CR
Contoured (C)	Poor	63	74	82	85	Small grain, contoured
Contoured (C)	Good					Small grain, contoured
C + Crop residue	Poor	62	73	81	84	Small grain, C + CR
C + Crop residue	Good	60	72	80	83	Small grain, C + CR



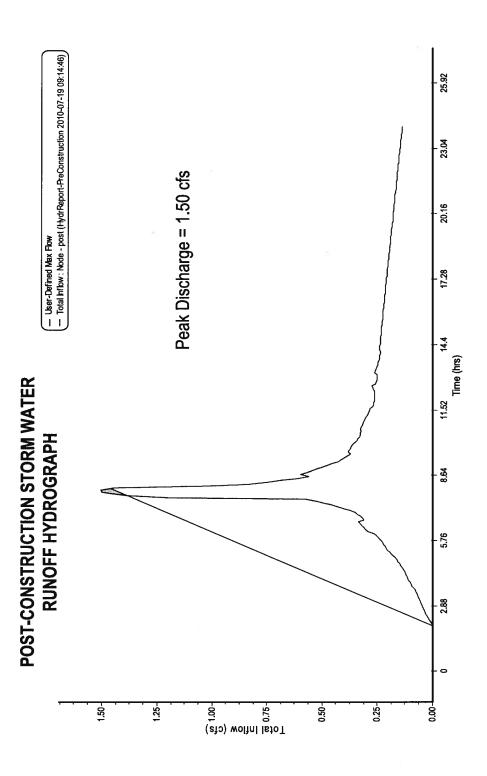
	· · · · · · · · · · · · · · · · · · ·					
Contoured & terraced (C&T)	Poor					Small grain, C&T
Contoured & terraces (C&T)	Good					Small grain, C&T
C&T + Crop residue	Poor	60	71	78	81	Small grain, C&T + CR
C&T + Crop residue	Good	58	69	77	80	Small grain, C&T + CR
Close-seeded legumes/rotated meadow						
Straight row	Poor	66	77	85	89	Legumes, straight row
Straight row	Good	58	72	81	85	Legumes, straight row
Contoured	Poor	64	75	83	85	Legumes, contoured
Contoured	Good	55	69	78	83	Legumes, contoured
Contoured & terraced	Poor	63	73	80	83	Legumes, C&T
Contoured & terraced	Good	51	67	76	80	Legumes, C&T
OTHER AGRICULTURAL LAND						
Pasture, grassland, or range	Poor	68	79	86	89	Pasture, grassland, or range
	Fair					Pasture, grassland, or range
	Good					Pasture, grassland, or range
Meadow, continuous grass, non-grazed		30				Meadow, non-grazed
Brush or brush/weed/grass mixture	Poor	48	-	-	_	Brush
, , , , , ,	Fair	35	56	70	77	Brush
	Good				_	Brush
Woods & grass combination	Poor	57				Woods & grass combination
	Fair					Woods & grass combination
	Good	32				Woods & grass combination
Woods	Poor	45				Woods
	Fair	36				Woods
	Good				•—	Woods
Farmsteads		59	₩	-	—	Farmsteads
ARID AND SEMIARID RANGELAND		-	 	-		
Herbaceous	Poor		80	87	93	Herbaceous range
	Fair					Herbaceous range
	Good		-	_	-	Herbaceous range
Oak & Aspen	Poor					Oak & Aspen range
out a ropen	Fair		•	57	-	Oak & Aspen range
	Good		-			Oak & Aspen range
Pinyon & Juniper	Poor		75	_	-	Pinyon & Juniper range
initan eranikei	Fair					Pinyon & Juniper range
	Good		41	_	_	Pinyon & Juniper range
Sagebrush (w/grass understory)	Poor		1			Sagebrush range
Jageniusii (W/gi ass ulluci stol y)	Fair		51			Sagebrush range
	Good					Sagebrush range
Desert shrub	Poor	63	_			Desert shrub range
Desert Sillub	Fair					Desert shrub range
				_	_	
	Good	49	امما	/Y	84	Desert shrub range













SEP 23 2010

NAPA CO. CONSERVATION DEVELOPMENT & PLANNING DEPT.



STORMWATER RUNOFF MANAGEMENT PLAN (SRMP)

FOR THE

ROGERS WINERY USE PERMIT

PROJECT LOCATED AT

970 CONN VALLEY ROAD ST. HELENA, CA 94574

> County: NAPA APN: 025-180-061

> > JULY 16, 2010

PREPARED FOR REVIEW BY:

NAPA COUNTY DEPARTMENT OF PUBLIC WORKS 1195 THIRD STREET, ROOM 201 NAPA, CA 94559





A. PLANNING AND ORGANIZATION

- Completed Post-Construction BMP Applicability Checklist (Appendix A) See Attached.
- 2. Completed SRMP General Information Form (Appendix B) See Attached.
- 3. Completed SRMP General Checklist for a Complete Application (Appendix C)
 See Attached
- Vicinity Map
 See sheet UP1.0 in the Use Permit Plans prepared by this office and dated 07-15-10.
- 5. Other Applicable Regulatory Permits Not applicable.
- 6. Nature and Purposed Use of the Project

The purpose of this project is for the Rogers Winery Use Permit. Rogers Winery proposes to construct a winery with a production capacity of 30,000 gallons per year. The project is a preliminary design of the winery site, including constructing an all-weather surface of an existing access drive, converting an existing building to a winery tasting room and production building, locating a new covered crush pad and parking spaces, and performing all applicable grading and drainage for the site.

B. IDENTIFY POLLUTANTS AND CONDITIONS OF CONCERN

- Drainage Study (Projects > 10,000 ft² new impervious surface)
 See Hydrology Report for Rogers Winery prepared by this office and dated July 15, 2010.
- 2. Source Control BMP Selection Worksheet (Appendix E) See Attached
- Storm water Conveyance Systems
 See sheet UP2.1 of the Use Permit Plans prepared by this office and dated 07-15-10 for the proposed stormwater conveyance system. The project is neither within the FEMA floodway nor the 100-year flood zone.
- 4. Post-Construction BMP Selection Worksheet (Appendix F Treatment Control)
 Not Applicable



C. Post-Construction BMPs

Site Design BMP's

1. Maintain Storm water Runoff Volumes to Pre-Development Levels
Site Design BMP Activity

Site Design Divir	Activity
Minimize impervious footprint	The proposed site plan utilizes existing landscaping and planter areas to maintain the impervious footprint. The proposed access drive has been designed to the minimum width allowed, minimizing the impervious footprint.
Conserve natural areas	The existing development of the site is being utilized fully for this project. The proposed access road will be located at the same location as the existing site access road. Grass lined swales will be used to convey the stormwater to vineyards. Swales will expel stormwater into rock energy dissipaters and into the adjacent vineyards where the stormwater currently sheet flows.

- 2. Storm water Outfall Structures within Jurisdiction of DFG, RWQCB, and/or ACE Not Applicable.
- 3. Slopes and Distances between Project Footprint and Open Storm Water Conveyance Systems

The proposed winery building and nearest parking spot is 200' from Conn Creek. Stormwater derived in this area will be conveyed to the adjacent vineyards via an open-channel swale. The stormwater will sheet flow across the vineyards, allowing the majority of the water to percolate into the ground while filtering the balance of potential contaminants.

Source Control BMPs

- 4. Source Control Measures (Appendix E)
 - A. Roads and Driveways The existing gravel access drive will be replaced with an all-weather access drive. The proposed access drive will be located in the exact location as the existing hard-packed gravel access drive, minimizing the affects of the increased impervious area.



- B. Parking Areas The existing site has large open areas for parking. The proposed site plan calls for a total of 5 parking spaces.
- C. New or Reconstructed Storm water Conveyance Systems The overall stormwater conveyance is not being altered. The grading of the site has been designed such that the existing stormwater routes will not be altered. The proposed swales are releasing the stormwater into the same vineyards in which the stormwater currently flows into during storm events.
- D. Storm Drain Inlets, Open Channels, and Creeks Two new open channel grassy lined swales will capture and convey the stormwater into the adjacent vineyards. The stormwater will be released into rock energy dissipaters and be allowed to sheet flow through the vineyards for percolation and filtration.
- E. Landscaping The landscaping and planting areas on the proposed site will remain.
- F. Trash Storage Areas The trash and recycling area shall be contained in the existing covered garage on the site.
- G. Pools, Spas, and Fountains N/A
- H. Roofs, Gutters and Downspouts All roofs, gutters, and downspouts shall be construction with PVC or HDPE. Once released, the stormwater will sheet flow across adjacent vineyards.
- Loading and Unloading Dock Areas N/A
- J. Outdoor Material Storage Areas N/A
- K. Processing Areas A proposed winery crush pad on the site will be covered. A floor drain on the crush pad will be connected to the septic system.
- Vehicle/Equipment Repair and Maintenance Areas N/A
- M. Vehicle/Equipment Wash Areas N/A
- N. Food Service Equipment Cleaning N/A
- O. Interior Floor Drains All interior floor drains shall be plumbed to the sewer system and not connected to the storm drain system.



P. Fueling Areas – N/A

Treatment Control BMP's

- 5. Treatment Control BMP Selection Worksheet (Appendix F) Not Applicable.
- 6. BMP Treatment Control Calculations Not Applicable.

D. SITE PLAN

The Use Permit Plans for this project (prepared by this office and dated 07-15-10) shows the limit of disturbance, drainage patterns, location of Site Design and Source Control BMP's, and location of future impervious areas. Sheet UP1.0 has an overview of the entire parcel, and sheets UP2.0 and UP2.1 has the localized improvements to the parcel



E. Post-Construction BMP Implementation and Maintenance Agreement

- 1. The Napa County Department of Public Works will be notified in writing 48 hours prior to commencing with construction. Failure to do so constitutes a violation of the approved SRMP.
- Review and or approval of the SRMP shall not relieve the contractor from his or her responsibilities for compliance with Construction Site Runoff Control Requirements, nor shall it relieve the contractor from errors or omissions in the approved plan.
- The stormwater contact person shall evaluate the performance of all BMPs and modify the SRMP and BMP implantation as appropriate to eliminate all illicit discharges and will notify the Napa County Department of Public Works within 48 hours.
- 4. I, the undersigned, certify that all land clearing, construction and development shall be done pursuant to the approved plan.
- 5. The BMPs presented in these plans shall be inspected and maintained on an annual basis at minimum. The BMPs for this proposed project include the grassy lined swales used to convey the stormwater into vineyards.

Signed:	_ Date:	
Title:	2	

Rogers Winery

Page 6 of 7

July 15, 2010



	<u>Page</u>
Post-Construction Runoff Management Applicability Checklist (Appendix A)	8
Application for SRMP Review (Appendix B)	10
SRMP Checklist for a Complete Application (Appendix C)	11
Source Control BMP Selection Worksheet (Appendix E)	14

NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS APPENDIX A - APPLICABILITY CHECKLIST

Post-Construction Runoff Management Applicability Checklist

6.

7.

County of Napa
Department of Public Works
1195 Third Street
Napa, CA 94559
(707) 253-4351 for information



Yes (No)

(P) No

Yes (No)

Napa, CA 94559 (707) 253-4351 for information Project Number: Assessor Parcel Number(s): Project Address: (for County use Only) 970 Conn Valley Road, St. Helena 025-180-061 Instructions: Structural projects requiring a use permit, building permit, and/or grading permit must complete the following checklist to determine if the project is subject to the Post-Construction Runoff Management Requirements. In addition, the impervious surface worksheet on the reverse page must also be completed to calculate the amount of new and reconstructed impervious surfaces proposed by your project. This form must be completed, signed, and submitted with your permit application(s). Definitions are provided in the Post-Construction Runoff Management Requirements policy. Note: If multiple building or grading permits are required for a common plan of development, the total project shall be considered for the purpose of filling out this checklist. POST-CONSTRUCTION STORMWATER BMP REQUIREMENTS (Parts A and B) If any answer to Part A are answered "yes" your project is a "Priority Project" and is subject to the Site Design, Source Control, and Treatment Control design standards described in the Napa County Post-Construction Runoff Management Requirements. If all answers to Part A are "No" and any answers to Part B are "Yes" your project is a "Standard Project" and is subject to the Site Design and Source Control design standards described in the Napa County Post-Construction Runoff Management Requirements. If every question to Part A and B are answered "No", your project is exempt from post-construction runoff management requirements. Part A: Priority Project Categories Does the project meet the definition of one or more of the priority project categories? Residential with 10 or more units Commercial development greater than 100,000 square feet..... 2. Automotive repair shop...... Yes (No) 3. Yes (No) Retail Gasoline Outlet. 4. Yes (No) 5. Yes (No) Parking lots with greater than 25 spaces or greater than 5,000 square feet...... *Refer to the definitions section for expanded definitions of the priority project categories. Part B: Standard Project Categories Does the project propose: A facility that requires a NPDES Permit for Stormwater Discharges Associated with Industrial Activities?..... Yes No New or redeveloped impervious surfaces 10,000 square feet or greater, excluding roads?..... Yes (No) 2. Yes (No) Hillside residential greater than 30% slope..... 3. Yes (No Installation of new storm drains or alteration to existing storm drains?..... 5.

Note: To find out if your project is required to obtain an individual General NPDES Permit for Stormwater discharges Associated with Industrial Activities, visit the State Water Resources Control Board website at, www.swrcb.ca.gov/stormwtr/industrial.html

Liquid or solid material loading and/or unloading areas?.....

Vehicle and/or equipment fueling, washing, or maintenance areas, excluding residential uses?.....

Commercial or industrial waste handling or storage, excluding typical office or household waste?.....

Date: June 3, 2008 Page 1 of 2

NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS APPENDIX A - APPLICABILITY CHECKLIST

Impervious Surface Worksheet

Project phasing to decrease impervious surface area shall not exempt the project from Post-Construction Runoff Management requirements. A new development or redevelopment project must comply with the requirements if it is part of a larger common plan of development that would result in the creation, addition and/or reconstruction of one acre or more of impervious surface. (For example, if 50% of a subdivision is constructed and results in 0.9 acre of impervious surface, and the remaining 50% of the subdivision is to be developed at a future date, the property owner must comply with the Post-Construction Runoff Management requirements.

		Impervious Surface (Sq F	it)	Total New and
Type of Impervious Surface	Pre-Project (if applicable)	New (Does not replace any existing impervious area)	Reconstructed (Replaces existing impervious area)	Reconstructed Impervious Surfaces (Sq Ft)
Buildings, Garages, Carports, other Structures with roofs	5,840	0	2,840	2,840
Patio, Impervious Decking, Pavers and Impervious Liners	n/a	n/a	n/a	n/a
Sidewalks and paths	n/a	n/a	n/a	n/a
Parking Lots	n/a	1,447	n/a	1,447
Roadways and Driveways,	n/a	5,517	n/a	5,517
Off-site Impervious Improvements	n/a	n/a	n/a	n/a
Total Area of Impervious Surface (Excluding Roadways and Driveways)	n/a	6,964	2,840	9,804

Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s).

I declare under penalty of perjury, that to the best of my knowledge, the information presented herein is accurate and complete.

Name of Owner or Agent (Please Print):	Title:
Signature of Owner or Agent:	Date:

Date: June 3, 2008 Page 2 of 2

NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS APPENDIX B - APPLICATION FOR SRMP REVIEW

		USE ONLY		
SUBMITTAL DATE:	FILE #:	APN #:		
USGS QUAD:	CalWater	shed:		
REQUEST:				
				- 1000
USE PERMIT CATEGORY:	☐ Hillside Residence ☐ Subdivisi	on Commercial Facility	ty TYPE: Private	Public
BUILDING AND/OR GRADII	NG PERMIT: Structure Driv	veway □ Road □ Rese	ervoir Cave Other	
FINAL APPROVAL: Date: _				
Deposit: \$				
•	Receipt Number	Received By	7	Date
	TO BE COMPLETE	D BY APPLICANT		
	(Please type or			
Applicant's Name: Gary				
Telephone #: ()_	Fax #: ()			
Mailing Address: 10 Cla	ay Street # 200	Oakland		94607
Status of Applicant's Intere	• • •	City	State	Zip
Property Owner's Name: _S	ame as applicant			
Telephone #: ()	Fax #: ()	E-Mail:		
Mailing Address:				
No	Street	City	State	Zip
Site Address/Location:	970 Conn Valley Road	d S	St. Helena, CA	94574
Assessor's Parcel #(s):	No Street 025-180-061		City	
7.000001 0 1 2.001 M(0)	010 200 002			
SIGNATURE: I horoby andif	, that all the late westing and in	al in this and it is the stand		.1.3
application form, the Stormwa plan, cross sections/elevation investigations including acces Works for evaluation of this approperty involved.	y that all the information containe ater Runoff Management Plan (SI s, is complete and accurate to the sto County Assessor's Records application and preparation of reposition of the stores.	RMP), the supplemental e best of my knowledge as are deemed necessants related thereto, inclu	information sheets, site I hereby authorize suc ary by the Department of ading the right of access	e plan, plot h of Public s to the
Signature of Applicant	Date	Signature of Property C	Owner Date	

Date: June 3, 2008

NAPA COUNTY CONSTRUCTION SITE RUNOFF CONTROL REQUIREMENTS APPENDIX C - SRMP CHECKLIST FOR A COMPLETE APPLICATION

FOR OFFICIAL USE ONLY	35
PLAN REVIEWER:	DATE RECEIVED:
PROJECT NAME:	PROJECT NUMBER:
PERMIT CATEGORY: Use Permit Buildi	ing Permit Grading Permit
Project Category (check all applicable Pr	iority or Standard Project categories)
☐ Priority Project	⊠ Standard Project
Residential with 10 or more units	Industrial NPDES permit
100,000 sq ft commercial	Impervious surface > 10,000 sq ft (excluding roads)
Automotive repair shop	Hillside residential on slopes 30% or more
Restaurant	X Roadways and driveways that require a grading permit
Retail Gasoline Outlet	New or alteration of storm drains
Parking Lot (>25 spaces or >5,000SF)	Liquid or solid material loading areas
	Vehicle or equipment fueling, washing, or maintenance
	Commercial or industrial waste handling and storage

At a minimum, the Stormwater Runoff Management Plan must cover the areas listed below.

 $\sqrt{\ }$ = Complete, X = Incomplete, NA = Not Applicable

A. Planning and Organization

- 1. X Completed Post-Construction BMP Applicability Checklist (Appendix A)
- 2. X Completed SRMP General Information Form (Appendix B).
- 2. _x_ Vicinity map showing the site in relation to the surrounding area.
- 3. NA If applicable, incorporate or reference other regulatory permits and their requirements. Note: All State and Federal Permits (1600, 401/404, General Permit, etc) must be approved prior to any construction within State Waters.
- 4. X Describe the nature of the proposed use of the development project.

B. Identify Pollutants and Conditions of Concern

- 1. X Standard and Priority Projects proposing 10,000 or more sq. ft. of new impervious surface, excluding roadways and driveways or projects directly discharging to tidally-influenced receiving waters, must prepare a drainage study that calculates the pre-development runoff volume according to the criteria in Chapter 3.1.
- 2. X Standard and Priority Projects must provide a completed Source Control BMP Selection Worksheet (Appendix E) that lists all anticipated activities associated with the use of the proposed project that have the potential to generate pollutants.
- 3. X Standard and Priority Projects must list and describe all stormwater conveyance systems (e.g. storm drain, ditch, creek, etc) within 150 feet of the project footprint. Discretionary projects must also provide an analysis for all open stormwater conveyance systems. At a minimum, the analysis must consider the criteria in Chapter 3.3.

Date: June 3, 2008

NAPA COUNTY CONSTRUCTION SITE RUNOFF CONTROL REQUIREMENTS APPENDIX C - SRMP CHECKLIST FOR A COMPLETE APPLICATION

4. NA Priority Projects required to incorporate Treatment Control BMPs into the project design shall provide a completed Post-Construction BMP Selection Worksheet (Appendix F).

D. Post-Construction BMPs

Site Design BMPs

- 1. X List and describe all Site Design BMPs used to maintain stormwater runoff volumes to predevelopment conditions according to the criteria described in Chapter 4.1. If structural controls are required to maintain pre-development peak runoff conditions, a description of why Site Design BMPs alone are not practicable for maintaining runoff conditions is required.
- 2. NA List and describe all structures (outfalls, culverts, etc.) proposed within the jurisdiction of the DFG, RWQCB, and/or ACE. The description must include the structure's specifications and designed storm capacity. The structure must be constructed in accordance with all applicable State and Federal permits.
- 3. X Provide the average slope and minimum and maximum distance between the project footprint and all open stormwater conveyance systems (e.g. ditches, creeks, etc.). Ministerial projects must establish setbacks that comply with the stream setback requirements in the Conservation Regulations and Floodplain Management Regulations. Discretionary projects may establish and/or restore wider buffers zones to protect aquatic resources and structures.

Source Control BMPs

4. X List and describe all source control measures included in the project design to eliminate pollutant contact with stormwater from the anticipated activities identified in the Source Control BMP Selection worksheet (Appendix E). The description must include the location and design specifications for each source control BMP.

Treatment Control BMPs

- 5. NA Priority Projects provide a completed Treatment Control BMP Selection Worksheet (Appendix F) and include a description of the location and design specifications for each treatment control BMP.
- 6. NA Provide the calculations used to design the treatment control BMPs to satisfy the numeric sizing treatment standards in Chapter 4.3. Applicants may count the site design BMPs toward meeting these numeric standards.

F. Site Plan

The site plan shall be neat and legible and shall be drawn on a 24" X 36" sheet and shall be folded to 8 ½ " by 11" prior to submittal. When two or more sheets are used to illustrate the plan view, an index sheet is required, illustrating the entire project on one (1) 24" x 36" (minimum) sheet. The entire parcel shall be identified on the plan. If only a portion of the site will be developed, the entire parcel may be shown as a detail, with the area to be developed, cleared, and/or graded drawn to an appropriate scale.

The site plan shall include all of the following:

- 1. X Provide and legend and north arrow on the plan.
- 2. X Maximum plan scale of 1" = 100'.
- 3. X An outline of the entire property.
- 4. X Provide a "limit of disturbance" line which shows the limit of soil disturbance and areas where existing vegetation is preserved.

Date: June 3, 2008

NAPA COUNTY CONSTRUCTION SITE RUNOFF CONTROL REQUIREMENTS APPENDIX C - SRMP CHECKLIST FOR A COMPLETE APPLICATION

- 5. X All open stormwater conveyance systems (e.g. ditches, creeks) and setback distances must be delineated.
- 6. NA State and Federal wetlands must be accurately delineated.
- 7. NA The National Flood Insurance Program 100 Year Flood Zone and Flood Way must be delineated.
- 8. X Drainage areas on the property and direction of flow. Map must extend as far outside the site perimeter as necessary to illustrate relevant drainage areas. Where relevant drainage areas are too large to depict on the map, map notes or inserts are sufficient.
- 9. NA All storm drain inlets and outlets must be located on the plan.
- 10. X Anticipated stormwater discharge locations.
- 11. X Location of existing and future Site Design and source Control BMPs.
- 12. NA Location of existing and future Treatment Control BMPs.
- 13. X Location of existing and future "impervious" areas paved areas, buildings, covered areas.
- G. Post-Construction BMP Implementation and Maintenance Agreement
- 1. <u>NA</u> One of the maintenance mechanisms described in Chapter 5A, which is satisfactory to the Director, must be signed and executed.
- 2. X Include a signed Owner's Certification that states "I, the undersigned, certify that all land clearing, construction and development shall be done pursuant to the approved plan." This must be signed in ink on each plan submitted or on an original reproducible.

Date: June 3, 2008 Page 3 of 3

NAPA COUNTY POST-CONSTRUCTION RUNOFF MANAGEMENT REQUIREMENTS APPENDIX E - SOURCE CONTROL BMP SELECTION WORKSHEET

All Standard and Priority Projects must complete and sign the Source Control BMP Selection Worksheet and submit it with their Stormwater Runoff Management Plan (SRMP).

Date of Application: 07-16-10			07 16 10	••••••••	*****	•••••	•••••
Project Location or Address: 970 Conn Valley Road St. Helena, CA 94574 Project Name: Rogers Winery Property Owner Name: Gary Rogers Applicant's Name: Gary Rogers ### Contractor						i .	
Project Name: Rogers Winery Property Owner Name: Gary Rogers Applicant's Name: Gary Rogers Applicant's Address: 10 Clay Street #200	Type of Application: Muse Permit Duilding Permit Digrading Dig					(For County Use Only)	İ
Property Owner Name: Gary Rogers Applicant's Name: Gary Rogers 2	Project Lo	cation or A	ddress: 970 Conn Valley	Road S	t. 1	Helena, CA 9457	4
Applicant's Name: 80 Owner Contractor Engineer/Architect Developer Applicant's Address: 10 Clay Street #200 Coakland, CA 94607 Applicant's Phone: Fax: E-mail: Parcel/Tract #: Lot #: APN: 025-180-061 Fill out the table below to indicate which Source Control BMPs in Chapter 4.2 apply to your project. Check box to indicate proposed activity Land Use/Activities Check box if project is excluded) X Roads and driveways. None 4.2.A X Parking Areas None 4.2.B X New or Reconstructed Stormwater Conveyance None 4.2.C X Systems Storm drain Inlets and open channels or creeks. Detached Residential Homes 4.2.F X Landscaping None 4.2.E X Trash Storage Areas. Detached Residential Homes 4.2.F X Pools, Spas, and Fountains. None 4.2.G X Roads, Gutters, and Downspouts. None 4.2.C X Loading and Unloading Dock Areas None 4.2.I X Processing Areas. Detached Residential Homes 4.2.I X Vehicle and Equipment Repair and Maintenance Detached Residential Homes 4.2.I X Processing Areas. Detached Residential Homes 4.2.I X None 4.2.N X Interior Floor Drains. None 4.2.N X Interio	Project Na	me: Rog	ers Winery			00	
Applicant's Address: 10 Clay Street #200	Property C	wner Nam	e: Gary Rogers				
Applicant's Address: 10 Clay Street #200 Oakland, CA 94607 Applicant's Phone: Fax: E-mail: Parcel/Tract #: Lot #: APN: 025-180-061 Fill out the table below to indicate which Source Control BMPs in Chapter 4.2 apply to your project. Check box to indicate proposed activity Land Use/Activities Check box if project is excluded) X Roads and driveways. None 4.2.A X Parking Areas None 4.2.B None 4.2.C X Systems Storm drain Inlets and open channels or creeks. Detached Residential Homes 4.2.C Landscaping None 4.2.E Trash Storage Areas. Detached Residential Homes 4.2.F Pools, Spas, and Fountains. None 4.2.H Loading and Unloading Dock Areas None 4.2.I Quitdoor Material Storage Areas. Detached Residential Homes 4.2.I Vehicle and Equipment Repair and Maintenance Areas None 4.2.I Vehicle and Equipment Repair and Maintenance Areas Detached Residential Homes 4.2.C Vehicle and Equipment Cleaning None 4.2.L None 4.2.L Vehicle and Equipment Cleaning None 4.2.N None 4.2.N Food Service Equipment Cleaning None 4.2.D Interior Floor Drains. None 4.2.D Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s). Interior Floor Drains. None 4.2.D Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s). Interior Floor Drains. None 4.2.D Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s). Interior Floor Drains. None 4.2.D Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s). Interior Floor Drains. None 4.2.D Incorrect information on proposed activities or uses of a project may delay your project application(s) or permit(s).	Applicant's	s Name:	Gary Rogers				
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Draft Date: June 3, 2008