



May 29, 2018

Ms. Dorcas Hanson-Lugo
SCL LEA
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, California 91342

RE: SUNSHINE CANYON LANDFILL JOINT TECHNICAL DOCUMENT AMENDMENT APPLICATION PACKAGE

Dear Ms. Hanson-Lugo:

In accordance with the California Code of Regulations (CCR), Title 27 requirements, Tetra Tech BAS (TTBAS), on behalf of Browning Ferris Industries of California (BFI), is pleased to submit the Joint Technical Document (JTD) Amendment application package prepared for the Sunshine Canyon Landfill (SCL). The JTD Amendment is provided for the following changes in operations:

- Daily cover operations to include the use of a non-reusable geosynthetic panel product as an alternative daily cover (ADC), as approved by the local enforcement agency (SCL LEA). Use of the ADC is requested for periods of up to 48 hours prior to placement of additional refuse or other approved cover as supported by the Pilot Project Using Geosynthetic Panel Product, dated October 11, 2017.
- Daily cover description has been revised to clarify that a minimum of six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction system performance and conserve on-site soil usage the minimum 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day.

It is our understanding that the following information is required by 27 CCR 21570 (f) to complete the SWFP application submittal to your agency:

1. Joint Application Form

An application form (E-1-77) has been completed for the purpose of JTD Amendment and is included as Attachment 1.

2. Joint Technical Document (JTD)

The JTD is the main document in support of obtaining a Solid Waste Facility Permit (SWFP). Included herein in Attachment 2 are the JTD text and Appendix that have been revised or developed as part of the JTD Amendment for revision to operations for daily cover and ADC placement. Insert instructions for are provided herein. For ease in review the revised text

for the JTD in “track changes” mode is included in Attachment 3. A complete pdf copy of the amended JTD is included on a CD in Attachment 6.

3. California Environmental Quality Act (CEQA) Compliance

This JTD Amendment does not entail any additional operations or changes in design beyond that which was analyzed in the Final EIR (SCH 1989071210: 1993), the Final SEIR (SCH 1992041053: 1999), the Addendum (October 2004) to the FEIR and SEIR and the Final SEIR (SCH 1992041053: April 2012).

The use of non-reusable geosynthetic panel product as an ADC in lieu of nine inches of cover soil will result in less overall air emissions from heavy equipment operations and fugitive dust emissions due to the elimination of excavating, hauling, stockpiling and deploying the cover soil.

4. CEQA Mitigation Monitoring Implementation Schedule

A Mitigation Monitoring and Reporting Summary (MMRS) was prepared as a part of the CEQA process described above. A copy of the MMRS is included as Attachment 4.

5. Los Angeles County Integrated Waste Management Plan (CIWMP) Conformance Finding

The SCL is included in the Siting Element of the Los Angeles County Integrated Waste Management Plan (CIWMP) on pages 7-9 and 7-26 and Figure 7-96, and is therefore in compliance with this requirement (Attachment 5).

**6. Completeness Determination of Preliminary Closure/
Post-Closure Maintenance Plan (PCPCMP)**

The PCPCMP is submitted as an integral part of the JTD as Sections E and F of the JTD. No changes to the PCPCMP have been made as part of the JTD Amendment.

7. List of Applicable Hearings Open to the Public

27 CCR, Section 21570(f)(11) requires a list of public hearings and meetings which have been held in relation to the SCL permit process; however, no public hearings are required as part of this JTD Amendment and thus a list is not available.

In accordance with CCR, Title 27, Section 21570, TTBAS, on behalf of BFI the owner and operator of the SCL, certifies that all information contained in this SWFP application package for the site is accurate and true, to the best of our knowledge and belief. Information contained in this application package was generated by BFI as well as duly authorized parties.

Ms. Dorcas Hanson-Lugo

RE: Sunshine Canyon Landfill Joint Technical Document Application Package

May 29, 2018

Page 3 of 3

If you should have any questions regarding this information and/or submittal, please contact myself at (909) 860-7777 in the context of the forthcoming permit review report.

Respectfully submitted,

A handwritten signature in blue ink, reading "Paul T. Willman". The signature is fluid and cursive, with a long horizontal line extending from the end.

Paul Willman
Principal Solid Waste Planner
Solid Waste Division, Permitting Department

Attachments

- c: David Thompson, SCL LEA
- Wen Yang, Los Angeles Regional Water Quality Control Board (via GeoTracker)
- Joshua Mills, Republic Services
- Tuong-phu Ngo, Republic Services
- Chris Coyle, Republic Services

ATTACHMENT 1

APPLICATION FORM E-1-77

APPLICATION FOR SOLID WASTE FACILITY PERMIT AND WASTE DISCHARGE REQUIREMENTS

CALRECYCLE E-1-77 (Rev. 11-15)

NOTE: This form has been developed for multiple uses. It is the transmittal sheet for documents required to be submitted to the appropriate agency.
Please refer to the attached instructions for definitions of terms and for completing this application form in a complete and correct manner.

FOR OFFICIAL USE ONLY			
SWIS/WDID/Global ID NUMBER:	FILING FEE:	RECEIPT NUMBER:	DATE RECEIVED:
DATE ACCEPTED:	DATE REJECTED:	ACCEPTANCE DATE OF INCOMPLETE APPLICATION: _____	
		DATE DUE: _____	

Part 1. GENERAL INFORMATION

A. ENFORCEMENT AGENCY: Sunshine Canyon Landfill LEA	B. COUNTY: Los Angeles
C. TYPE OF APPLICATION (Check one box only):	
<input type="checkbox"/> 1. NEW SWFP and/or WDRS	<input type="checkbox"/> 4. PERMIT REVIEW
<input type="checkbox"/> 2. CHANGE TO SWFP and/or WDRS <input type="checkbox"/> REVISION <input type="checkbox"/> MODIFICATION <input type="checkbox"/> OTHER (As authorized by law)	<input type="checkbox"/> 5. AMENDMENT OF APPLICATION
<input type="checkbox"/> 3. WAIVER	<input checked="" type="checkbox"/> 6. RFI/ROWD/JTD AMENDMENTS

Part 2. FACILITY DESCRIPTION

A. NAME OF FACILITY:
Sunshine Canyon Landfill

B. LOCATION OF FACILITY:

1. PHYSICAL ADDRESS OR LOCATION AND ZIP CODE:
14747 San Fernando Road, Sylmar, CA 91342

2. LATITUDE AND LONGITUDE:
34.32979, -118.51570 to approximate center of waste footprint

3. LEGAL DESCRIPTION OF PERMITTED BOUNDARY BY SECTION, TOWNSHIP, RANGE, BASE, AND MERIDIAN, IF SURVEYED:
Within portions of Sections 23, 24, 25 and 26 of Township 3 North, Range 16 West, San Bernardino Base Meridian

C. TYPE OF ACTIVITY: (Check applicable boxes):

<input checked="" type="checkbox"/> 1. DISPOSAL a. TYPE : Class III	<input type="checkbox"/> 3. TRANSFORMATION	<input type="checkbox"/> 5. C&D/INERT DEBRIS PROCESSING
<input type="checkbox"/> 2. COMPOSTABLE MATERIALS HANDLING a. TYPE: _____	<input type="checkbox"/> 4. TRANSFER/PROCESSING	<input type="checkbox"/> 6. IN-VESSEL DIGESTION
		<input type="checkbox"/> 7. OTHER (describe): _____

D. IDENTIFICATION OF FACILITY IN CIWMP [CONFORMANCE FINDING]: Not Applicable

☒ 1. FACILITY IS IDENTIFIED IN (Check one):

<input checked="" type="checkbox"/> SITING ELEMENT	DATE OF DOCUMENT	June 1997 CIWMP approved by CIWMB 6/98	PAGE # 7-9, 7-26 and Figure 7-9
<input type="checkbox"/> NONDISPOSAL FACILITY ELEMENT	DATE OF DOCUMENT	_____	PAGE # _____

E. TYPE OF PERMITTED WASTES TO BE RECEIVED: (Check applicable boxes):

<input type="checkbox"/> 1. AGRICULTURAL	<input checked="" type="checkbox"/> 6. CONSTRUCTION/DEMOLITION	<input type="checkbox"/> 11. LIQUIDS
<input type="checkbox"/> 2. ASBESTOS <input type="checkbox"/> Friable <input type="checkbox"/> Non-friable	<input checked="" type="checkbox"/> 7. CONTAMINATED SOILS	<input checked="" type="checkbox"/> 12. MUNICIPAL SOLID WASTE (MSW)
<input type="checkbox"/> 3. ASH	<input type="checkbox"/> 8. DEAD ANIMALS	<input type="checkbox"/> 13. SEWAGE SLUDGE
<input type="checkbox"/> 4. AUTO SHREDDER	<input checked="" type="checkbox"/> 9. INDUSTRIAL	<input type="checkbox"/> 14. WASTE TIRES
<input checked="" type="checkbox"/> 5. COMPOSTABLE MATERIAL (describe): Green Waste	<input checked="" type="checkbox"/> 10. INERT	<input type="checkbox"/> 15. OTHER (describe): _____

Part 3. FACILITY INFORMATION

A. FACILITY INFORMATION:

1. INFORMATION APPLICABLE TO ALL EXISTING FACILITIES:

a. MAXIMUM DAILY TONNAGE OR CUBIC YARDS	<u>12,100 tpd, 72,600 tons/week</u>
b. AS-DESIGNED DAILY TONNAGE or CUBIC YARDS	<u>12,100 tpd for disposal</u> <u>Disposal/Transfer = 66,000 tons/week</u> <u>Beneficial Reuse/Recycling = 6,600 tons/week</u>
c. FACILITY SIZE (acres)	<u>1,036 acres</u>
d. MAXIMUM TRAFFIC VOLUME PER DAY (vpd)	<u>1265 vehicles</u>
e. DAYS AND HOURS OF OPERATION	<u>Reciept of Refuse: 6:00 a.m. to 6:00 p.m, M-F</u> <u>7:00 a.m. to 2 p.m., Saturday</u> <u>Landfill Operations: 6:00 a.m. to 9:00 p.m., Monday thru Saturday; Equipment Maintenance</u> <u>4:00 a.m. to 9:00 p.m. Monday thru Saturday.</u>

2. PROPOSED CHANGE(S) OR INFORMATION APPLICABLE TO NEW SWFP AND/OR WDRs

a. MAXIMUM DAILY TONNAGE OR CUBIC YARDS	<u></u>
b. AS-DESIGNED DAILY TONNAGE or CUBIC YARDS	<u></u>
c. FACILITY SIZE (acres)	<u></u>
d. MAXIMUM TRAFFIC VOLUME PER DAY (vpd)	<u></u>
e. DAYS AND HOURS OF OPERATION	<u></u> <u></u>
f. OTHER	<u>JTD update to include non-reusable geosynthetic panel product as ADC and</u> <u>description of cover soil placement and recovery.</u> <u></u>

3. ADDITIONAL INFO. REQUIRED FOR COMPOSTABLE MATERIALS HANDLING FACILITIES ONLY:

a. TOTAL SITE CAPACITY (cu yds)	<u>Not Applicable</u>
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4. ADDITIONAL INFORMATION REQUIRED FOR LANDFILLS ONLY:

a. AVERAGE DAILY TONNAGE (TPD)	<u>8,400</u>
b. SITE CAPACITY CURRENTLY PERMITTED (Airspace) (cu yds)	<u>140.9 million cubic yards (mcy) (gross airspace; includes liner, final cover and stability buttress volumes)</u>
c. SITE CAPACITY PROPOSED (Airspace) (cu yds)	<u>None</u>
d. SITE CAPACITY USED TO DATE (Airspace) (cu yds)	<u>64.7 mcy</u>
e. SITE CAPACITY REMAINING (Airspace) (cu yds)	<u>76.2 mcy (gross airspace)</u>
f. DATE OF CAPACITY INFORMATION (Date) (See instructions):	<u>April 30, 2018</u>
g. LAST PHYSICAL SITE SURVEY (Date)	<u>February 5, 2018</u>
h. ESTIMATED CLOSURE DATE (month and year)	<u>2038 (assumes 1.5% annual tonnage growth rate)</u>
i. DISPOSAL FOOTPRINT (acres)	<u>363 acres</u>
j. SITE CAPACITY PLANNED (cu yds)	<u>Not Applicable</u>
k. 1. (i) IN-PLACE WASTE DENSITY (lbs of waste per cu yd of waste) AND (ii) WASTE-TO-COVER RATIO (Estimated) (v:v) OR 2. AIRSPACE UTILIZATION FACTOR (tons of waste per cu yd of landfill airspace)	<u>Not Applicable</u> <u>Not Applicable</u> <u>0.739</u>

Part 4. SOURCE OF WATER SUPPLY (Check applicable boxes)

<input checked="" type="checkbox"/> A. MUNICIPAL OR UTILITY SERVICE:	<u>Los Angeles Department of Water and Power, 111 N. Hope Street, Los Angeles, CA 90030</u>
<input type="checkbox"/> B. INDIVIDUAL (wells):	<u></u>
<input type="checkbox"/> C. SURFACE SUPPLY:	<u></u>
1. NAME OF STREAM, LAKE, ETC. : <u></u>	
2. TYPE OF WATER RIGHTS:	
<input type="checkbox"/> RIPARIAN	<input type="checkbox"/> APPROPRIATION
3. STATE PERMIT OR LICENSE NUMBER , IF APPLICABLE: <u></u>	
<input type="checkbox"/> D. OTHER:	<u></u>

Part 5. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) (Check applicable boxes)

A. CHECK BOX(ES) IF ENVIRONMENTAL DOCUMENT WAS OR WILL BE PREPARED FOR THIS PROJECT:

☒

1. ENVIRONMENTAL DOCUMENT WAS PREPARED:

☒

ENVIRONMENTAL IMPACT REPORT (EIR) SCH#

EIR (SCH# 1989071210) and Final SEIR (SCH# 1992041053); Final SEIR April 2012 (SCH# 199204

☐

NEGATIVE DECLARATION (ND)/MITIGATED NEGATIVE DECLARATION (MND) SCH#

☒

ADDENDUM TO (Identify environmental document)

EIR and Final SEIR

SCH#

1989071210

☐

2. ENVIRONMENTAL DOCUMENT WILL BE PREPARED (Enter lead agency if known):

B. IF ENVIRONMENTAL DOCUMENT(S) WAS NOT PREPARED, PLEASE PROVIDE THE FOLLOWING INFORMATION:

☐

CATEGORICAL/STATUTORY EXEMPTION (CE/SE)
EXEMPTION TYPE

GUIDELINE #

Part 6. LIST OF ATTACHMENTS (Fill in the date for each document checked)

A. REQUIRED WITH ALL APPLICATION SUBMITTALS:

☒

RFI/JTD

September 2014, Amendment No. 4 May 2018

☒

LOCATION MAP

See Figure 1 of September 2014, Amendment No. 4 May 2018 JTD

☒

MITIGATION MONITORING & REPORTING PROGRAM

See Attachment 4

☒

LIST OF PUBLIC HEARINGS AND OTHER MEETINGS OPEN TO THE PUBLIC

☒

ENVIRONMENTAL DOCUMENT(S): (previously provided)
Previously submitted, copies of covers provided in Attachment 1A.

☒

EIR

1989, 1990, 1997, 1998, 2012

☐

MND/ND

☐

EXEMPTION

☒

ADDENDUM

2004

B. ADDITIONAL REQUIRED DOCUMENTS FOR DISPOSAL FACILITIES ONLY:

☒

OPERATING LIABILITY FINANCIAL MECHANISM

See Attachment 1B
Dated 6/29/17 and 10/04/17

☒

CLOSURE/POST CLOSURE MAINTENANCE PLAN

☒

PRELIMINARY

September 2014, Amendment No. 4 March 2018 JTD

☐

FINAL

☒

FINANCIAL RESPONSIBILITY DOCUMENTATION

Dated July 2014 and April 2015
See Attachment 1C

☒

KNOWN OR REASONABLY FORSEEABLE CORRECTIVE ACTION COST ESTIMATES

Water CAP App. O and NWRCAP App. Y of September 2014,
Amendment No. 4 May 2018 JTD.

☒

LANDFILL CAPACITY SURVEY

See Attachment 1D - February 5, 2018

RESULTS (see instructions)

C. IF APPLICABLE:

☐

REPORT OF WASTE DISCHARGE

☐

STORMWATER PERMIT APPLICATION

☐

NPDES PERMIT APPLICATION

☐

OTHER

☐

DEPT. OF TOXIC SUBSTANCES CONTROL OR CERTIFIED UNIFIED
PROGRAM AGENCY REPORT

☐

SWAT (Air and water)

☐

WETLANDS PERMITS

☐

VERIFICATION OF FIRE DISTRICT COMPLIANCE

Part 7. OWNER INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:

☐

SOLE PROPRIETORSHIP

☐

PARTNERSHIP

☒

CORPORATION

☐

GOVERNMENT AGENCY

OWNER(S) OF LAND
(Name):

Browning Ferris Industries of California, Inc.

ADDRESS, CITY, STATE, ZIP

14747 San Fernando Road, Sylmar, CA 91342

SSN OR TAX ID #

95-2772010

TELEPHONE #:

818-362-2141

FAX #:

818-362-5484

E-MAIL ADDRESS:

ccoyle@republicservices.com

CONTACT PERSON (Print Name):

Chris Coyle

Part 8. OPERATOR INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:

☐

SOLE PROPRIETORSHIP

☐

PARTNERSHIP

☒

CORPORATION

☐

GOVERNMENT AGENCY

FACILITY OPERATOR(S)

(Name):

Browning Ferris Industries of California, Inc.

ADDRESS, CITY, STATE, ZIP

14747 San Fernando Road, Sylmar, CA 91342

SSN OR TAX ID #:

95-2772010

TELEPHONE #:

818-362-2141

FAX #:

818-362-5484

E-MAIL ADDRESS:

ccoyle@republicservices.com

CONTACT PERSON (Print Name):

Chris Coyle

ADDRESS WHERE LEGAL NOTICE MAY BE SERVED:

14747 San Fernando Road, Sylmar, CA 91342

Part 9. SIGNATURE BLOCK

Owner:

I certify under penalty of perjury that the information I provided for this application and for any attachments is true and accurate to the best of my knowledge and belief. I am aware that the operator intends to operate a solid waste facility at the site specified above pursuant to this application and understand that I may be responsible for the site should the operator fail to meet applicable requirements.

SIGNATURE (LAND OWNER OR AGENT):

Chris Coyle

PRINTED NAME:

General Manager

TITLE:

DATE:

Lessee:

I certify under penalty of perjury that the information I provided for this application and for any attachments is true and accurate to the best of my knowledge and belief. I am aware that the operator intends to operate a solid waste facility at the site specified above pursuant to this application.

Not Applicable

SIGNATURE (LESSEE):

Not Applicable

PRINTED NAME:

TITLE:

DATE:

Operator:

I certify under penalty of perjury that the information contained in this application and all attachments are true and accurate to the best of my knowledge and belief.

SIGNATURE (FACILITY OPERATOR OR AGENT):

Chris Coyle

PRINTED NAME:

General Manager

TITLE:

DATE:

Part 10. OTHER (Attach additional sheets to explain any responses that need clarification).

ATTACHMENT 1A

**EIR/SEIR/ADDENDUM
DOCUMENT COVER SHEETS**

VOLUME I

**SUNSHINE CANYON
LANDFILL EXTENSION**

PROJECT NUMBER: SP 86312

CASE: CP 2556

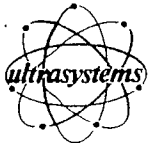
STATE CLEARINGHOUSE NO.: 84082908

**drott
environmental
Impact
report**



PREPARED FOR

**COUNTY OF LOS ANGELES
DEPT. OF REGIONAL PLANNING**



THIS DOCUMENT WAS
PRINTED ON RECYCLED PAPER

DRAFT ENVIRONMENTAL IMPACT REPORT
SUNSHINE CANYON LANDFILL EXTENSION
VOLUME I

PROJECT NO: SP 86312
CASE: CP 2556

STATE CLEARINGHOUSE NO: 84082908

Prepared For:

COUNTY OF LOS ANGELES
DEPARTMENT OF REGIONAL PLANNING
IMPACT ANALYSIS SECTION
320 West Temple Street
Los Angeles, California 90012

Prepared By:

ULTRASYSTEMS, INCORPORATED
ENVIRONMENTAL SERVICES DIVISION
16845 Von Karman Avenue
Irvine, California 92714
714/863-7000

APRIL 1989

FINAL ENVIRONMENTAL IMPACT REPORT

CONDITIONAL USE PERMIT 86-312-(5)
SUB-PLAN AMENDMENT
CONDITIONAL USE PERMIT 2556

STATE CLEARINGHOUSE NUMBER 84082908

THE NORTH SAN FERNANDO VALLEY AREA

COUNTY OF LOS ANGELES
DEPARTMENT OF REGIONAL PLANNING
320 WEST TEMPLE STREET
LOS ANGELES, CA 90012

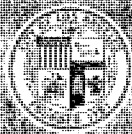
OCTOBER 1990

Volume I

Subsequent Environmental Impact Report

Sunshine Canyon

Landfill



City of Los Angeles

Department of City Planning

Environmental Review Section

1001 South Flower Street, 15th Floor

Los Angeles, California 90012

July 1997

Volume I

Final Subsequent Environmental Impact Report

Sunshine Canyon

Landfill

City of Los Angeles
Department of City Planning
Environmental Review Section



City of Los Angeles

Department of City Planning

Environmental Review Section

200 N. Main Street, 15th Floor

Los Angeles, CA 90012

June 1998

SUNSHINE CANYON CITY/COUNTY LANDFILL

ADDENDUM TO:

FINAL ENVIRONMENTAL IMPACT REPORT

(State Clearinghouse No. 89071210)

AND

FINAL SUBSEQUENT ENVIRONMENTAL

IMPACT REPORT

(State Clearinghouse No. 92041053)

October 2004

Lead Agency:

COUNTY OF LOS ANGELES
Department of Regional Planning
Impact Analysis Section
320 West Temple Street, 13th Floor
Los Angeles, California 90012-3225

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

VOLUME I: ~~DRAFT-FINAL~~ SUBSEQUENT ENVIRONMENTAL IMPACT REPORT FOR THE SUNSHINE GAS PRODUCERS RENEWABLE ENERGY PROJECT

SCH No. 92041053

~~May 2011~~ April 2012

Executive Officer

Barry Wallerstein, D.Env.

Deputy Executive Officer,

Planning, Rule Development, and Area Sources

Elaine Chang, DrPH

Assistant Deputy Executive Officer,

Planning, Rule Development, and Area Sources

Laki Tisopulos, Ph.D, P.E.

Planning and Rules Manager,

CEQA and Toxics

Susan Nakamura

Prepared by: ARCADIS U.S., Inc.

Reviewed by: Jeffrey Inabinet – Air Quality Specialist
Steve Smith, Ph.D. – Program Supervisor
Barbara Baird – District Counsel
Veera Tyagi – Senior Deputy District Counsel
Lauren Nevitt – Deputy District Counsel II

ATTACHMENT 1B

OPERATING LIABILITY FINANCIAL MECHANISM

CERTIFICATE OF LIABILITY INSURANCE

(If additional space is needed, add attachment.)

Name of Insurer Aspen Specialty Insurance Company	Address 175 Capital Blvd. Suite 300, Rocky Hill, CT 06067 Phone Number 860-760-7700	CA Insurer License Number: #0115496 NAIC Number:
Name of Insured Republic Services, Inc.	Address 18500 North Allied Way, Phoenix, AZ 85054 Phone Number 480-627-7095	

Solid Waste Disposal Facilities Covered: (Enter Information for Each Facility)

LIMITS OF LIABILITY

Name	Address	Facility Information Number	Per Occurrence*	Annual Aggregate*
Vasco Road Landfill	4001 N. Vasco Rd. Livermore, CA 94550	01-AA-0010	\$1,000,000	\$5,000,000
Keller Canyon Landfill	901 Bailey Rd. Pittsburg, CA 94565	07-AA-0032	\$1,000,000	\$5,000,000
Allied Imperial Landfill	104 E. Robertson Rd. Imperial, CA 92251	13-AA-0019	\$1,000,000	\$5,000,000
Seagull/Pebbly Beach Landfill	1 Dump Rd. Avalon, CA 90704	19-AA-0061	\$1,000,000	\$5,000,000
Sunshine Canyon Landfill	14747 San Fernando Rd. Sylmar, CA 91342	19-AR-2000	\$1,000,000	\$5,000,000
Ramona Landfill	20630 Pamo Rd Ramona, CA 92065	37-AA-0005	\$1,000,000	\$5,000,000
Borrego Landfill	2449 Palm Canyon Rd. Borrego Springs, CA 92004	37-AA-0006	\$1,000,000	\$5,000,000
Otay Landfill	1700 Maxwell Rd Chula Vista, CA 91911	37-AA-0010	\$1,000,000	\$5,000,000
Sycamore Landfill	8514 Mast Blvd. Santee, CA 92071	37-AA-0023	\$1,000,000	\$5,000,000
Foothill Landfill	6484 Waverly Rd. Linden, CA 95236	39-AA-0004	\$1,000,000	\$5,000,000
Forward Landfill	9999 S. Ausitn Rd. Manteca, CA 95336	39-AA-0015	\$1,000,000	\$5,000,000
OX Mountain Landfill	12310 San Mateo Rd. Half Moon Bay, CA 94019	41-AA-0002	\$1,000,000	\$5,000,000

Newby Island Landfill	1601 Dixon Landing Rd. Milpitas, CA 95035	43-AN-0003	\$1,000,000	\$5,000,000
Sonoma Landfill	500 Mecham Road Petaluma, CA 94952	49-AA-0001	\$1,000,000	\$5,000,000
Policy Number ERAFLCA17		Effective Date June 30, 2017		

*Excluding legal defense costs and deductibles

INSURER CERTIFICATION:

1. The insurer hereby certifies that it has issued liability insurance covering bodily injury and property damage to the insured listed above in connection with the insured's obligation to demonstrate financial responsibility under Title 27, California Code of Regulations, Division 2, Subdivision 1, Chapter 6. The coverage applies to the above-listed facility(ies) for accidental occurrences arising from the operation of the facility(ies).

2. Indicate whether this coverage is ☒ primary or ☐ excess coverage.

3. The limits of liability are the amounts stated above for "per occurrence" and "annual aggregate", exclusive of legal defense costs. If an excess coverage insurance policy is being provided, complete the following sentence:

[\$_____ per occurrence and \$_____ annual aggregate in excess of the underlying limits of \$_____ per occurrence and \$_____ annual aggregate.]

4. The insurance coverage is subject to all of the terms and conditions of the policy; provided, however, that any provisions of the policy inconsistent with sections (a) through (e) of this paragraph shall be amended to conform with sections (a) through (e):

(a) Bankruptcy or insolvency of the insured shall not relieve the insurer of its obligations under the policy to which this certification applies.


(b) The insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement from the insured for any such payment made by the insurer. If another mechanism, as specified in Title 27, California Code of Regulations, Division 2, Subdivision 1, Chapter 6, is used to demonstrate coverage of the deductible, then this section does not apply.

(c) Upon request by the California Integrated Waste Management Board (CIWMB), the insurer agrees to furnish to the CIWMB the original policy and all endorsements.

(d) Cancellation or any other termination of this certificate, whether by the insurer, the insured, a parent corporation providing insurance coverage for its subsidiary, or by a firm having an insurable interest in and obtaining liability insurance on behalf of the operator of the solid waste disposal facility(ies), will be effective only upon written notice and only after the expiration of 60 days after a copy of such written notice is sent by certified mail, and received by the CIWMB, as evidenced by the return receipt. (See exception, section (e))

(e) Cancellation due to non-payment of premiums is effective only upon written notice and only after the expiration of 10 days after the date on which the operator and the CIWMB have received the notice of termination, as evidenced by the return receipts.

The party below certifies and signs under penalty of perjury that the information in this document is true and correct to the best of his or her knowledge, and satisfies the requirements of Title 27, California Code of Regulations, Division 2, Subdivision 1, Chapter 6, and that the insurer is licensed by the California Department of Insurance to transact the business of insurance in the State of California as an ☐ admitted carrier or ☐ eligible excess or surplus lines insurer.

Signature of Individual Authorized to Sign on Behalf of Insurer 	Title of Authorized Person Senior Vice President
Typed or Printed Name of Person Signing Erin Brown	Date 8/1/2017
Address of Person Signing 135 Main Street, Suite 1950, San Francisco, CA 94105	

Phone Number of Person Signing 415-800-0020

PRIVACY STATEMENT

The Information Practices Act (California Civil Code Section 1798.17) and the Federal Privacy Act (5 U.S.C. 552a(e)(3)) require that this notice be provided when collecting personal information from individuals.

AGENCY REQUESTING INFORMATION: California Integrated Waste Management Board.

UNIT RESPONSIBLE FOR MAINTENANCE OF FORM: Financial Assurances Section, California Integrated Waste Management Board, 1001 I Street, P.O. Box 4025, Sacramento, California 95812-4025. Contact the Manager, Financial Assurances Section, at (916) 341-6000.

AUTHORITY: Public Resources Code section 43600 et seq.

PURPOSE: The information provided will be used to verify adequate financial assurance of solid waste disposal facilities listed.

REQUIREMENT: Completion of this form is mandatory. The consequence of not completing this form is denial or revocation of a permit to operate a solid waste disposal facility.

OTHER INFORMATION: After review of this document, you may be requested to provide additional information regarding the acceptability of this mechanism.

ACCESS: Information provided in this form may be provided to the U.S. Environmental Protection Agency, State Attorney General, Air Resources Board, California Department of Toxic Substances Control, Energy Resources Conservation and Development Commission, Water Resources Control Board, and California Regional Water Quality Control Boards. For more information or access to your records, contact the California Integrated Waste Management Board, 1001 I Street, P.O. Box 4025, Sacramento, California 95812-4025, (916) 341-6000.



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 3

DATE (MM/DD/YYYY)
06/29/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD. SCOTTSDALE, AZ 85255	CONTACT NAME:		
	PHONE (A/C No.Ext):	FAX (A/C No.Ext):	
INSURED REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	E-MAIL ADDRESS: certificateteam@ccmsi.com		
	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: ACE American Insurance Company		22667
	INSURER B: Indemnity Insurance Company of NA		43575
	INSURER C: ACE Fire Underwriters		20702
	INSURER D: Illinois Union Insurance Company		27960
	INSURER E:		
INSURER F:			

COVERAGES**CERTIFICATE NUMBER: 1237521****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR _____ _____ GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC			HDO G27853420	06/30/2016	06/30/2017	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 5,000,000 MED EXP (Any one person) PERSONAL & ADV INJURY \$ 5,000,000 GENERAL AGGREGATE \$ 5,000,000 PRODUCTS -COMP/OP AGG \$ 5,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> <input type="checkbox"/>			ISA H09043585	06/30/2016	06/30/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 5,000,000 BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE AGGREGATE
B C A D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N <input type="checkbox"/> N/A <input checked="" type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WLR C48608115 - AOS WLR C48608127 - CA/MA/OR SCF C48608139 - WI WCU C48608140 - OH XS TNS C48612763 TX NS XS	06/30/2016 06/30/2016 06/30/2016 06/30/2016	06/30/2017 06/30/2017 06/30/2017 06/30/2017	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 3,000,000 E.L. DISEASE -EA EMPLOYEE \$ 3,000,000 E.L. DISEASE -POLICY LIMIT \$ 3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Division Number: 5123 - Named Insured Includes: Browning-Ferris Industries of California, Inc. - Dba: Sunshine Canyon LF

CERTIFICATE HOLDERCounty of Los Angeles Department of Public Works
Attn: Director
900 S Fremont Ave
Alhambra, CA 91803-1331
United States**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



ADDITIONAL REMARKS SCHEDULE

Page 2 of 3

AGENCY		NAMED INSURED	
POLICY NUMBER See First Page		REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM.

FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

The following provisions apply when required by written contract. As used below, the term certificate holder also includes any person or organization that the insured has become obligated to include as a result of an executed contract or agreement.

GENERAL LIABILITY:

Certificate holder is Additional Insured when required by written contract.

Coverage is primary and non-contributory when required by written contract.

Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

AUTO LIABILITY:

Certificate holder is Additional Insured when required by written contract.

Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY:

Waiver of Subrogation in favor of the certificate holder is included when required by written contract where allowed by state law.

Stop gap coverage for ND, WA and WY is covered under policy no. WLR C48608115 and stop gap coverage for OH is covered under policy no. WCU C48608140, as noted on page 1 of this certificate.

TEXAS EXCESS INDEMNITY AND EMPLOYERS LIABILITY:

Republic Services, Inc. and its subsidiaries are registered non-subscribers to the Texas Workers Compensation Act. Republic Services, Inc. has filed an approved Indemnity Plan with the Texas Department of Insurance which offers an alternative in benefits to employees rather than the traditional Workers Compensation Insurance in Texas. The excess policy (#TNS C48612763) shown on this certificate provides excess Indemnity and Employers Liability coverage for the approved Indemnity Plan.

Contractual Liability is included in the General Liability and Automobile Liability coverage forms. The General Liability and Automobile Liability policies do not contain endorsements excluding Contractual Liability.

Separation of Insured (Cross Liability) coverage is provided to the Additional Insured, when required by written contract, per the Conditions of the Commercial General Liability Coverage form and the Automobile Liability Coverage form.

NOTICE: THESE POLICY FORMS AND THE APPLICABLE RATES ARE EXEMPT FROM THE FILING REQUIREMENTS OF THE NEW YORK INSURANCE LAW AND REGULATIONS. HOWEVER, THE FORMS AND RATES MUST MEET THE MINIMUM STANDARDS OF THE NEW YORK INSURANCE LAW AND REGULATIONS.

COMMERCIAL GENERAL LIABILITY

POLICY NUMBER: HDO G27853420
Endorsement Number: LAU-90

CG 20 12 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – STATE OR GOVERNMENTAL
AGENCY OR SUBDIVISION OR POLITICAL
SUBDIVISION – PERMITS OR AUTHORIZATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

State Or Governmental Agency Or Subdivision Or Political Subdivision:

The County of Los Angeles and public entity or Special District for which the Los Angeles County Board of Supervisors is the Governing Body & their Agents, Officers and Employees, shall be Additional Insured(s) while acting within the scope of their duties against all claims arising out of or in connection with the work to be performed

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an insured any state or governmental agency or subdivision or political subdivision shown in the Schedule, subject to the following provisions:

1. This insurance applies only with respect to operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization.
2. This insurance does not apply to:
 - a. "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the federal government, state or municipality; or
 - b. "Bodily injury" or "property damage" included within the "products-completed operations hazard".

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED FOR COVERED AUTOS LIABILITY COVERAGE

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" for Covered Autos Liability Coverage under the Who Is An Insured provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured: Republic Services, Inc.

Endorsement Effective Date:

SCHEDULE

Name Of Person(s) Or Organization(s):

County of Los Angeles, Department of Public Works, their officers, agents and employees
900 S Fremont Ave., Alhambra, CA 91803-1331

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Each person or organization shown in the Schedule is an "insured" for Covered Autos Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Paragraph **A.1.** of Section **II** – Covered Autos Liability Coverage in the Business Auto and Motor Carrier Coverage Forms and Paragraph **D.2.** of Section **I** – Covered Autos Coverages of the Auto Dealers Coverage Form.



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY)
10/04/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD SCOTTSDALE, AZ 85255	CONTACT NAME:	
	PHONE (A/C No.Ext):	FAX (A/C No.Ext):
INSURED REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	E-MAIL ADDRESS: certificateteam@ccmsi.com	
	INSURER(S) AFFORDING COVERAGE	
	NAIC #	
	INSURER A:	
	INSURER B:	
	INSURER C:	
	INSURER D:	
INSURER E:		
INSURER F:		

COVERAGES**CERTIFICATE NUMBER: 1318175****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS -COMP/OP AGG
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/>						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE AGGREGATE
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT E.L. DISEASE -EA EMPLOYEE E.L. DISEASE -POLICY LIMIT
	Pollution Legal Liability:			See page 2 for details	06/30/2016	06/30/2017	\$25,000,000 Per Pollution Condition: \$25,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Division Number: 5123 - Named Insured Includes: Browning-Ferris Industries of California, Inc. - Dba: Sunshine Canyon LF

CERTIFICATE HOLDERCounty of Los Angeles Department of Public Works
Attn: Director
900 S Fremont Ave
ALHAMBRA, CA 91803
United States**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

AGENCY CUSTOMER ID: _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY		NAMED INSURED	
POLICY NUMBER See First Page		REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM.

FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

POLLUTION LEGAL LIABILITY - Insurers Affording coverage:
 Aspen Specialty Insurance Company (NAIC # 10717) - \$10MM (Policy No. ERAFACU16)
 Starr Surplus Lines Insurance Company (NAIC # 13604) - \$10MM x \$10MM (Policy No. 1000336581161)
 Tokio Marine Specialty Insurance Company (NAIC # 23850) - \$5MM x \$20MM (Policy No. PPK1517819)



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY)
10/04/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD. SCOTTSDALE, AZ 85255	CONTACT NAME:	
	PHONE (A/C No.Ext):	FAX (A/C No.Ext):
INSURED REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	E-MAIL ADDRESS: certificateteam@ccmsi.com	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: ACE American Insurance Co.	
	INSURER B: Indemnity Insurance Company of NA	
	INSURER C: ACE Fire Underwriters	
	INSURER D: Illinois Union Insurance Company	
	INSURER E:	
INSURER F:		

COVERAGES**CERTIFICATE NUMBER: 1318088****REVISION NUMBER: 1**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			HDO G27867789	06/30/2017	06/30/2018	EACH OCCURRENCE \$ 5,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 5,000,000 MED EXP (Any one person) PERSONAL & ADV INJURY \$ 5,000,000 GENERAL AGGREGATE \$ 5,000,000 PRODUCTS -COMP/OP AGG \$ 5,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED ONLY <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED ONLY <input type="checkbox"/>			ISA H0906073A	06/30/2017	06/30/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 5,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE AGGREGATE
B C A D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input checked="" type="checkbox"/> (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/>	N/A	WLR C64412917 - AOS WLR C64412905 - CA/MA/OR SCF C64412929 - WI WCU C64412899 - OH XS TNS C49166436 - TX NSXS	06/30/2017 06/30/2017 06/30/2017 06/30/2017	06/30/2018 06/30/2018 06/30/2018 06/30/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 3,000,000 E.L. DISEASE -EA EMPLOYEE \$ 3,000,000 E.L. DISEASE -POLICY LIMIT \$ 3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Division Number: 5123 - Named Insured Includes: Browning-Ferris Industries of California, Inc. - Dba: Sunshine Canyon LF

CERTIFICATE HOLDERCounty of Los Angeles Department of Public Works
Attn: Director
900 S Fremont Ave
Alhambra, CA 91803-1331
United States**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY		NAMED INSURED	
POLICY NUMBER See First Page		REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM.

FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

The following provisions apply when required by written contract. As used below, the term certificate holder also includes any person or organization that the insured has become obligated to include as a result of an executed contract or agreement.

GENERAL LIABILITY:

Certificate holder is Additional Insured when required by written contract.

Coverage is primary and non-contributory when required by written contract.

Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

AUTO LIABILITY:

Certificate holder is Additional Insured when required by written contract.

Waiver of Subrogation in favor of the certificate holder is included when required by written contract.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY:

Waiver of Subrogation in favor of the certificate holder is included when required by written contract where allowed by state law.

Stop gap coverage for ND, WA and WY is covered under policy no. WLR C64412917 and stop gap coverage for OH is covered under policy no. WCU C64412899, as noted on page 1 of this certificate.

TEXAS EXCESS INDEMNITY AND EMPLOYERS LIABILITY:

Republic Services, Inc. and its subsidiaries are registered non-subscribers to the Texas Workers Compensation Act. Republic Services, Inc. has filed an approved Indemnity Plan with the Texas Department of Insurance which offers an alternative in benefits to employees rather than the traditional Workers Compensation Insurance in Texas. The excess policy (#TNS C49166436) shown on this certificate provides excess Indemnity and Employers Liability coverage for the approved Indemnity Plan.

Contractual Liability is included in the General Liability and Automobile Liability coverage forms. The General Liability and Automobile Liability policies do not contain endorsements excluding Contractual Liability.

Separation of Insured (Cross Liability) coverage is provided to the Additional Insured, when required by written contract, per the Conditions of the Commercial General Liability Coverage form and the Automobile Liability Coverage form.

POLICY NUMBER: HDO G27867789

Endorsement Number: 262

COMMERCIAL GENERAL LIABILITY
CG 20 12 05 09**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.****ADDITIONAL INSURED – STATE OR GOVERNMENTAL
AGENCY OR SUBDIVISION OR POLITICAL
SUBDIVISION – PERMITS OR AUTHORIZATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE**State Or Governmental Agency Or Subdivision Or Political Subdivision:**

The County of Los Angeles and public entity or Special District for which the Los Angeles County Board of Supervisors is the Governing Body, and their Agents, Officers and Employees, shall be Additional Insured(s) while acting within the scope of their duties against all claims arising out of or in connection with the work to be performed.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an insured any state or governmental agency or subdivision or political subdivision shown in the Schedule, subject to the following provisions:

1. This insurance applies only with respect to operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization.
2. This insurance does not apply to:
 - a. "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the federal government, state or municipality; or
 - b. "Bodily injury" or "property damage" included within the "products-completed operations hazard".

POLICY NUMBER: HDO G27867789

Endorsement Number: 277¹

COMMERCIAL GENERAL LIABILITY
CG 24 04 05 09

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Person Or Organization: The County of Los Angeles and public entity or Special District for which the Los Angeles County Board of Supervisors is the Governing Body, and their Agents, Officers and Employees
P.O. Box 1460, Alhambra, CA 91802

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. **Transfer Of Rights Of Recovery Against Others To Us** of Section IV – Conditions:

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.

NON-CONTRIBUTORY ENDORSEMENT FOR ADDITIONAL INSURED

Named Insured Republic Services, Inc.			Endorsement Number 37
Policy Symbol HDO	Policy Number G27867789	Policy Period 06/30/2017 to 06/30/2018	Effective Date of Endorsement
Issued By (Name of Insurance Company) ACE American Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COMMERCIAL GENERAL LIABILITY COVERAGE

Schedule

Organization

The County of Los Angeles and public entity or Special District for which the Los Angeles County Board, of Supervisors is the Governing Body, and their Agents, Officers and Employees, P.O. Box 1460, Alhambra, CA 91802

Additional Insured Endorsement

CG2012

(If no information is filled in, the schedule shall read: "All persons or entities added as additional insureds through an endorsement with the term "Additional Insured" in the title)

For organizations that are listed in the Schedule above that are also an Additional Insured under an endorsement attached to this policy, the following is added to Section IV.4.a:

If other insurance is available to an insured we cover under any of the endorsements listed or described above (the "Additional Insured") for a loss we cover under this policy, this insurance will apply to such loss on a primary basis and we will not seek contribution from the other insurance available to the Additional Insured.


Authorized Agent

**COMMERCIAL AUTO
CA 20 48 10 13****THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.****DESIGNATED INSURED FOR
COVERED AUTOS LIABILITY COVERAGE**

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" for Covered Autos Liability Coverage under the Who Is An Insured provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured: Republic Services, Inc.**Endorsement Effective Date:****SCHEDULE****Name Of Person(s) Or Organization(s):**County of Los Angeles, Department of Public Works, their officers, agents and employees
900 S Fremont Ave.
Alhambra, CA 91803-1331

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Each person or organization shown in the Schedule is an "insured" for Covered Autos Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Paragraph **A.1.** of Section **II** – Covered Autos Liability Coverage in the Business Auto and Motor Carrier Coverage Forms and Paragraph **D.2.** of Section **I** – Covered Autos Coverages of the Auto Dealers Coverage Form.



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 2

DATE (MM/DD/YYYY)
10/04/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER CANNON COCHRAN MANAGEMENT SERVICES, INC. 17015 N. SCOTTSDALE RD. SCOTTSDALE, AZ 85255	CONTACT NAME:	
	PHONE (A/C No.Ext):	FAX (A/C No.Ext):
INSURED REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	E-MAIL ADDRESS: certificateteam@ccmsi.com	
	INSURER(S) AFFORDING COVERAGE	
	NAIC #	
	INSURER A:	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
INSURER F:		

COVERAGES**CERTIFICATE NUMBER: 1318159****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS -COMP/OP AGG
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS <input type="checkbox"/> SCHEDULED ONLY <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED ONLY <input type="checkbox"/>						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY(Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE AGGREGATE
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A					<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT E.L. DISEASE -EA EMPLOYEE E.L. DISEASE -POLICY LIMIT
	Pollution Legal Liability:			See page 2 for details	06/30/2017	06/30/2018	\$25,000,000 Per Pollution Condition: \$25,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Division Number: 5123 - Named Insured Includes: Browning-Ferris Industries of California, Inc. - Dba: Sunshine Canyon LF

CERTIFICATE HOLDERCounty of Los Angeles Department of Public Works
Attn: Director
900 S Fremont Ave
ALHAMBRA, CA 91803
United States**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

AGENCY CUSTOMER ID: _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY		NAMED INSURED	
POLICY NUMBER See First Page		REPUBLIC SERVICES, INC. 18500 N. ALLIED WAY PHOENIX, AZ 85054	
CARRIER See First Page	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM.

FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

POLLUTION LEGAL LIABILITY - Insurers Affording coverage:
 Aspen Specialty Insurance Company (NAIC # 10717) - \$10MM (Policy No. ERAFACU17)
 Starr Surplus Lines Insurance Company (NAIC # 13604) - \$10MM x \$10MM (Policy No. 1000336581171)
 Tokio Marine Specialty Insurance Company (NAIC # 23850) - \$5MM x \$20MM (Policy No. PPK1668612)

POLICY NUMBER: ERAFACU17

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

MANUSCRIPT ENDORSEMENT

SCHEDULE OF ADDITIONAL INSUREDS ENDORSEMENT

ENDORSEMENT NO: 016

EFFECTIVE DATE: 06/30/2017

This endorsement modifies insurance provided under the following:

POLICY NUMBER: ERAFACU17

It is hereby agreed that the following scheduled entities are additional insureds, provided coverage for such additional insured(s) applies:

- (a) Solely to the additional insured's liability arising out of the **insured's** ownership, operation, maintenance or use of the corresponding scheduled **insured location(s)**; and
- (b) Only if the additional insured is named in a suit as a co-defendant with the **insured**, alleging the additional insured is liable on the basis described in paragraph (a) above.

Schedule of additional insured(s)

County of Los Angeles, Department of Public Works, their officers, agents and employees

All other terms and conditions of this Policy remain unchanged.

ATTACHMENT 1C

FINANCIAL ASSURANCE DOCUMENTATION

Increase PENALTY RIDER

BOND AMOUNT \$46,424,344.05

BOND NO. 8217-22-73

To be attached and form a part of Bond No. 8217-22-73, executed by Federal Insurance Company as surety, on behalf of Browning-Ferris Industries of California, Inc. as current principal of record, and in favor of California Department of Resources Recycling and Recovery, as Obligee, and in the amount of Forty Six Million Four Hundred Twenty Four Thousand Three Hundred Forty Four Dollars and 05/100 (\$46,424,344.05).

In consideration of the agreed premium charged for this bond, it is understood and agreed that Federal Insurance Company hereby consents that effective from the 17th day of April, 2015, said bond shall be amended as follows:

THE BOND PENALTY SHALL BE Increased:

FROM: Forty Six Million Four Hundred Twenty Four Thousand Three Hundred Forty Four Dollars and 05/100 (\$46,424,344.05)

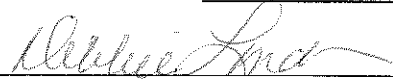
TO: Forty Six Million Six Hundred Thirty Nine Thousand Seven Hundred Forty Dollars and 00/100 (\$46,639,740.00) for Closure

The Increase of said bond penalty shall be effective as of the 17th day of April, 2015.

Signed, sealed and dated this 10th day of April, 2015.

Federal Insurance Company
SURETY

BY: _____



Debbie Lindstrom, ATTORNEY-IN-FACT



**Chubb
Surety**

**POWER
OF
ATTORNEY**

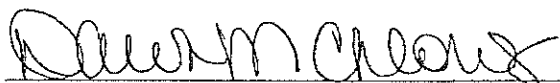
**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Scott C. Alderman, Timothy Buhite, John Drummey, Debbie Lindstrom and Kathleen M. Mitchell** of Seattle, Washington ---

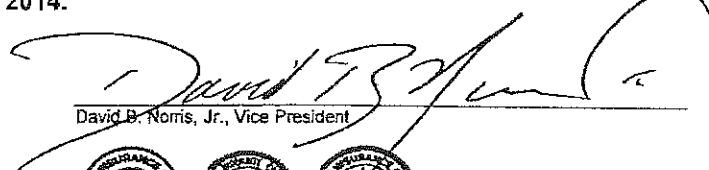
each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **2nd** day of **December, 2014**.

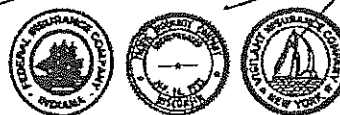


Dawn M. Chloros, Assistant Secretary





David B. Norris, Jr., Vice President



STATE OF NEW JERSEY

ss.

County of Somerset

On this **2nd** day of **December, 2014** before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316685
Commission Expires July 16, 2019



Notary Public

CERTIFICATION

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

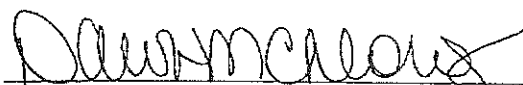
I, Dawn M. Chloros, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this

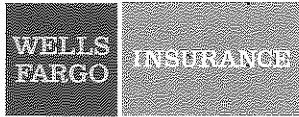
10th day of April, 2015





Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903-3555 e-mail: surety@chubb.com



Wells Fargo
Insurance Services USA, Inc.
CA DOI # ODO8408
601 Union Street
Suite 1300
Seattle, WA 98101

Tel: 206 892 9200
Toll Free: 888 785 2878

April 10, 2015

FedEX Standard

Patti K. Costa
Republic Services
14747 San Fernando Rd
Sylmar, CA 91342

RE: \$46,424,344.05 Closure for Closure Sunshine Canyon Landfill
Federal Bond# 8217-22-73

Patti;

Please find enclosed the Increase Penalty Rider increasing the bond from \$46,424,344.05 to \$46,639,740.00, effective date April 17, 2015 for the above captioned bond per your request.

Should you have any questions, please give me a call @ 206-892-9262.

Sincerely,

Debbie Lindstrom
Account Representative
Surety Services

Together we'll go far



Increase PENALTY RIDER

BOND AMOUNT \$47,805,921.45

BOND NO. 8217-22-74

To be attached and form a part of Bond No. 8217-22-74, executed by Federal Insurance Company as surety, on behalf of Browning-Ferris Industries of California, Inc. as current principal of record, and in favor of California Department of Resources Recycling and Recovery, as Obligee, and in the amount of Forty Seven Million Eight Hundred Five Thousand Nine Hundred Twenty One Dollars and 45/100 (\$47,805,921.45).

In consideration of the agreed premium charged for this bond, it is understood and agreed that Federal Insurance Company hereby consents that effective from the 17th day of April, 2015, said bond shall be amended as follows:

THE BOND PENALTY SHALL BE Increased:

FROM: Forty Seven Million Eight Hundred Five Thousand Nine Hundred Twenty One Dollars and 45/100 (\$47,805,921.45)

TO: Forty Eight Million Nine Hundred Sixty Four Thousand Seven Hundred Ninety Four Dollars and 00/100 (\$48,964,794.00) for Post Closure

The Increase of said bond penalty shall be effective as of the 17th day of April, 2015.

Signed, sealed and dated this 10th day of April, 2015.

Federal Insurance Company
SURETY

BY: _____



Debbie Lindstrom, ATTORNEY-IN-FACT



**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Scott C. Alderman, Timothy Buhite, John Drummey, Debbie Lindstrom and Kathleen M. Mitchell of Seattle, Washington** —

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **2nd** day of **December, 2014**.

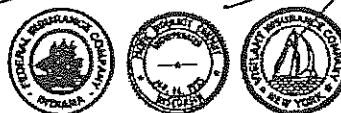
Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary



David B. Norris, Jr.

David B. Norris, Jr., Vice President



STATE OF NEW JERSEY

ss.

County of Somerset

On this **2nd** day of **December, 2014** before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316685
Commission Expires July 16, 2019

Katherine J. Adelaar

Notary Public

CERTIFICATION

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Dawn M. Chloros, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

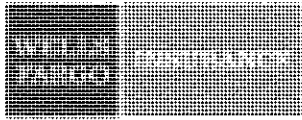
Given under my hand and seals of said Companies at Warren, NJ this **10th** day of **April, 2015**



Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903-3666 e-mail: surety@chubb.com



Wells Fargo
Insurance Services USA, Inc.
CA DOI # ODO8408
601 Union Street
Suite 1300
Seattle, WA 98101

Tel: 206 892 9200
Toll Free: 888 785 2878

April 10, 2015

FedEX Standard

Patti K. Costa
Republic Services
14747 San Fernando Rd
Sylmar, CA 91342

RE: \$47,805,921.45 Closure for Post Closure Sunshine Canyon Landfill
Federal Bond# 8217-22-74

Patti;

Please find enclosed the Increase Penalty Rider increasing the bond from \$47,805,921.45 to \$48,964,794.00, effective date April 17, 2015 for the above captioned bond per your request.

Should you have any questions, please give me a call @ 206-892-9262.

Sincerely,

Debbie Lindstrom
Account Representative
Surety Services

Together we'll go far



Increase PENALTY RIDER

BOND AMOUNT \$6,534,017.30

BOND NO. 8217-22-75

To be attached and form a part of Bond No. 8217-22-75 executed by Federal Insurance Company as surety, on behalf of Browning-Ferris Industries of California, Inc. as current principal of record, and in favor of California Department of Resources Recycling and Recovery, as Obligee, and in the amount of Six Million Five Hundred Thirty Four Thousand Seventeen Dollars and 30/100 (\$6,534,017.30).

In consideration of the agreed premium charged for this bond, it is understood and agreed that Federal Insurance Company hereby consents that effective from the 15th day of July, 2014, said bond shall be amended as follows:

THE BOND PENALTY SHALL BE Increased:


FROM: Six Million Five Hundred Thirty Four Thousand Seventeen Dollars and 30/100 (\$6,534,017.30)

TO: Six Million Six Hundred Thirty Two Thousand Twenty Seven Dollars and 56/100 (\$6,632,027.56) for Corrective Action

The Increase of said bond penalty shall be effective as of the 15th day of July, 2014.

Signed, sealed and dated this 28th day of May, 2014.

BY:


Johanne S. Puckett, ATTORNEY-IN-FACT

Federal Insurance Company
SURETY



**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

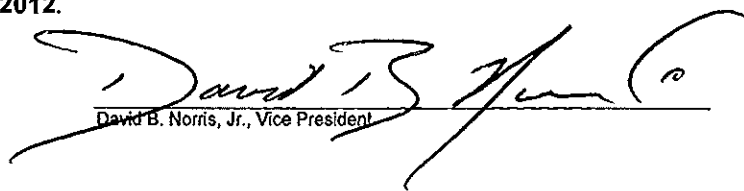
**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **Jacqueline Hampton, Michelle Patterson and Johanne S. Puckett of Greenville, South Carolina** -----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this **25th** day of **June, 2012**.


Kenneth C. Wendel, Assistant Secretary


David B. Norris, Jr., Vice President

STATE OF NEW JERSEY

ss.

County of Somerset

On this **25th** day of **June, 2012**

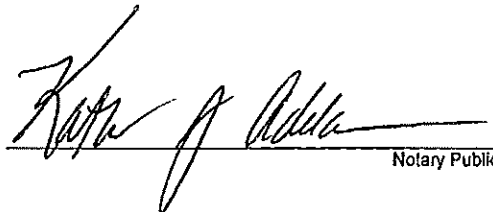
before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me

known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316685
Commission Expires July 16, 2014


Notary Public

CERTIFICATION

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, **Kenneth C. Wendel**, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**

(the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this **28th** day of **May**, **2014**

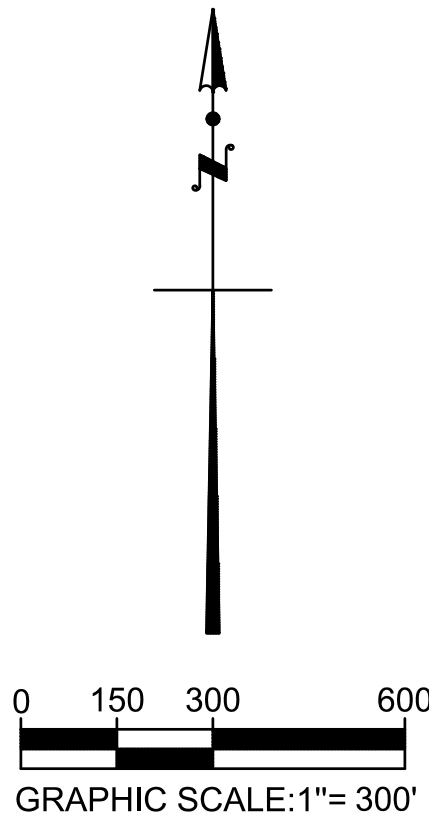
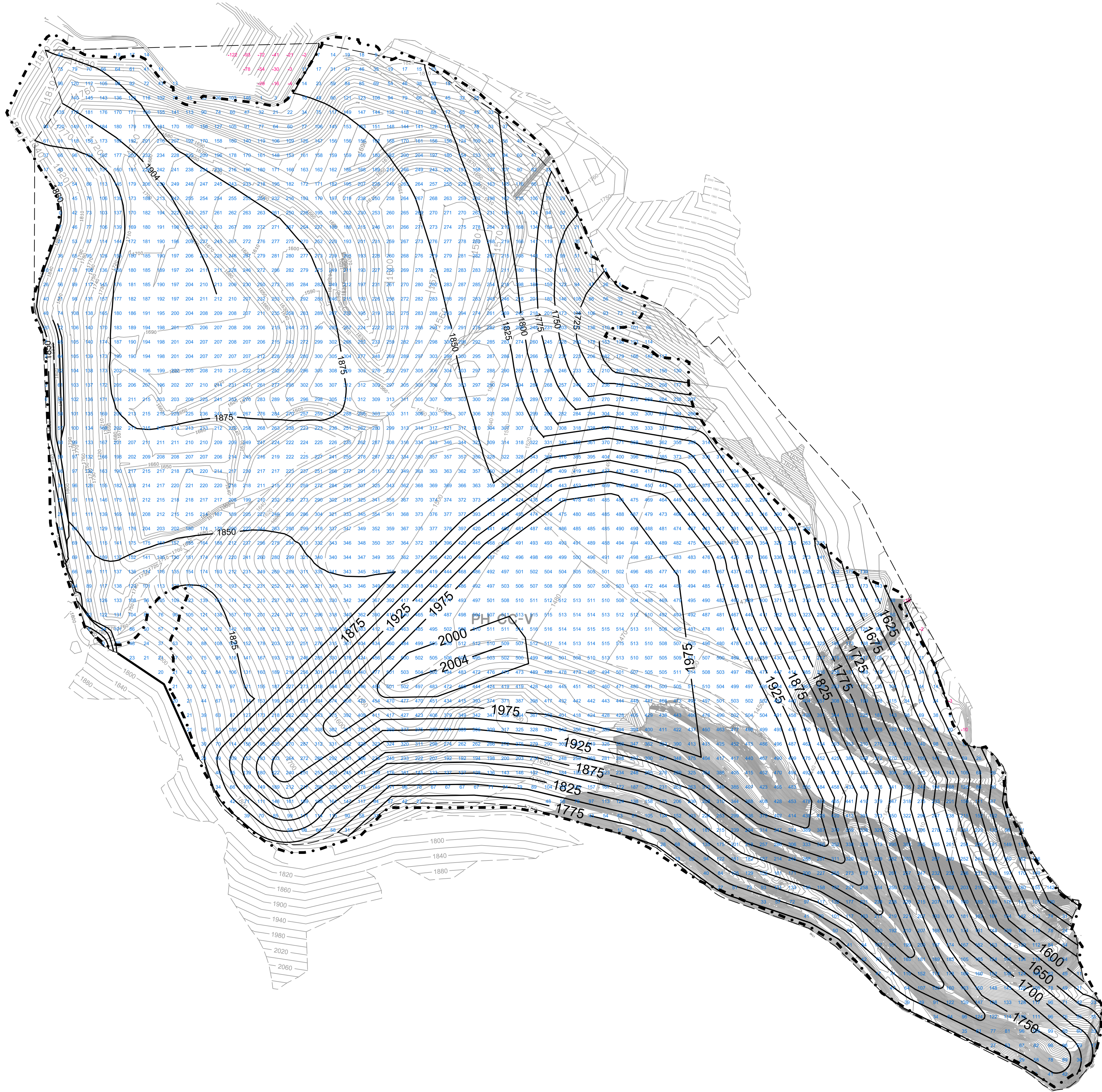



Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903-3656
e-mail: surety@chubb.com

ATTACHMENT 1D

**LANDFILL CAPACITY SURVEY RESULTS
W/ CADD CD**



LEGEND

- APPROXIMATE LIMIT OF PROPERTY LINE
- - - LIMIT OF REFUSE
- 1650 EXISTING MAJOR CONTOUR
- 2004 FINISHED GRADE CONTOUR
- UNIT 1 OF CITY LANDFILL

SITE VOLUME TABLE: UNADJUSTED

SITE:	SUNSHINE CANYON LANDFILL
STRATUM:	BASE SURFACE TO FINISHED SURFACE
SURF1:	BASE SURFACE
SURF2:	FINISHED SURFACE
CUT:	125,491 cu.yds
FILL:	141,149,481 cu.yds
NET:	141,023,990 cu.yds (F)
METHOD:	GRID

NOTE:
THE TOTAL SITE VOLUME FOR THE SUNSHINE CANYON LANDFILL CONSOLIDATION PROJECT WAS ORIGINALLY CALCULATED UTILIZING THE CONTOUR-CUT METHOD WITH AN ELECTRONIC PLANIMETER (DIGITIZER). THE CONTOUR-CUT METHOD WAS THEN COMPARED TO THIS COMPUTER GRID VOLUME ANALYSIS. AS A STANDARD OF ENGINEERING PRACTICE BOTH OF THESE METHODS ARE ACCEPTABLE AND CAN BE UTILIZED TO CALCULATE EARTHWORK VOLUMES. THE RESULT OF THESE CALCULATIONS MAY VARY BY AS MUCH AS 5 PERCENT DEPENDING ON THE SCALE OF THE DESIGN PLANS, CONTOUR INTERVAL AND OVERALL SIZE OF THE AREA BEING CALCULATED FOR VOLUME.

NO.	REVISION DESCRIPTION	DATE			



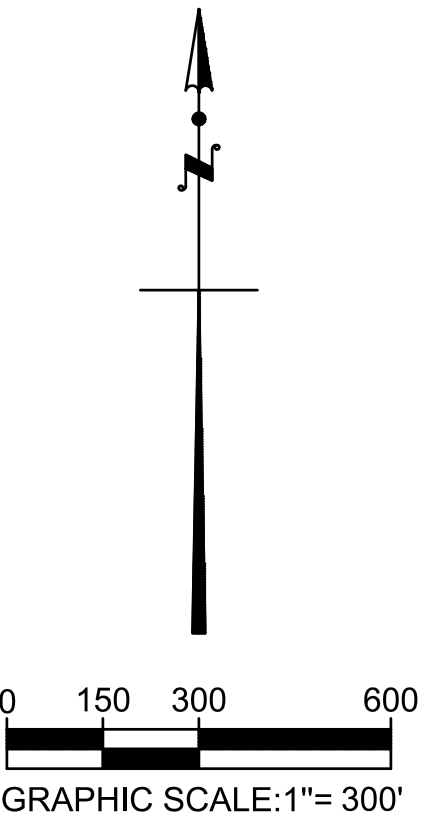
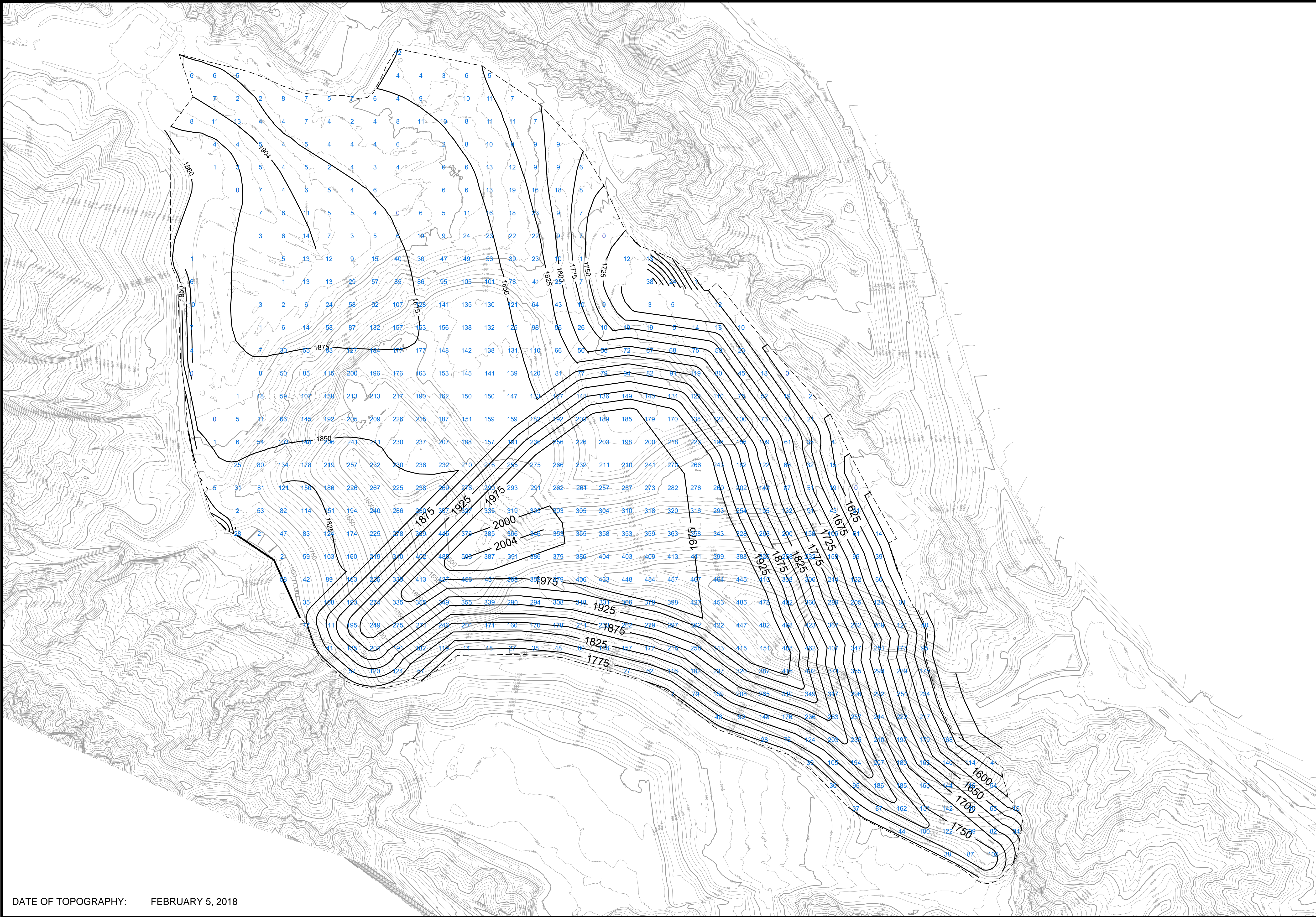
TETRA TECH BAS

1360 Valley Vista Drive, Diamond Bar, CA 91765
TEL 909.860.7777 FAX 909.860.8017

SUNSHINE CANYON LANDFILL

PERMITTED CAPACITY

DESIGNED BY :	J.M.B.	FILE :	Permitted Capacity.dwg
DRAWN BY :	A.N.P.	DATE :	03-2018
CHECKED BY :	P.W.	DATE :	03-2018
APPROVED BY :		DATE :	03-2018



VOLUME:
FILL: 80,150,000 CY

SURFACE 1 = EXISTING TOPOGRAPHY AS OF 02/05/2018 AND
PERMITTED BASE GRADES IN AREAS TO BE
CONSTRUCTED
SURFACE 2 = PERMITTED FINAL GRADES

SITE VOLUME FOR THE SUNSHINE CANYON LANDFILL WAS
CALCULATED ON AUTOCAD CIVIL 3D UTILIZING THE COMPUTER
TRIANGULATED IRREGULAR NETWORK VOLUME ANALYSIS. AS A
STANDARD OF ENGINEERING PRACTICE THIS METHOD IS
ACCEPTABLE AND CAN BE UTILIZED TO CALCULATE EARTHWORK
VOLUMES. THE RESULT OF THESE CALCULATIONS MAY VARY BY AS
MUCH AS 5 PERCENT DEPENDING ON THE SCALE OF THE DESIGN
PLANS, CONTOUR INTERVAL, AND OVERALL SIZE OF THE AREA
BEING CALCULATED FOR VOLUME.

1. THE EXISTING GRADES HAVE BEEN MODIFIED IN PHASES III, IV
AND V TO INCLUDE DESIGN BASE GRADES TO CALCULATE THE
TRUE REMAINING PERMITTED CAPACITY ONCE THESE AREAS
HAVE BEEN EXCAVATED.
2. GROSS AIRSPACE INCLUDES AIRSPACE FROM TOP OF FINAL
COVER TO BOTTOM OF LINER SYSTEM IN AREAS THAT ARE YET
TO BE CONSTRUCTED.

LEGEND

- APPROXIMATE LIMIT OF PROPERTY LINE
- - - LIMIT OF REFUSE
- 10- EXISTING MAJOR CONTOUR
- 10- PROPOSED MAJOR CONTOUR
- - - - - TOP OR TOE OF SLOPE

DATE OF TOPOGRAPHY: FEBRUARY 5, 2018

NO.	REVISION DESCRIPTION	DATE

TETRA TECH BAS
1360 Valley Vista Drive, Diamond Bar, CA 91765
TEL 909.860.7777 FAX 909.860.8017

SUNSHINE CANYON LANDFILL

REMAINING PERMITTED CAPACITY

DESIGNED BY : J.M.B.	FILE : Remaining Permitted Capacity.dwg	
DRAWN BY : A.N.P.	DATE : 03-2018	SCALE: AS SHOWN
CHECKED BY : P.W.	DATE : 03-2018	
APPROVED BY :	DATE : 03-2018	

ATTACHMENT 2

JOINT TECHNICAL DOCUMENT

The JTD is the main document in support of obtaining the SWFP. The amended SCL JTD (insert pages) is included with this application for a JTD Amendment application package. The JTD has been revised to update the document as part for the following:

- Update Supervisory Structure personnel in Section B.4.7.3.
- Daily cover operations to include the use of a non-reusable geosynthetic panel product as an alternative daily cover (ADC) as approved by the local enforcement agency (SCL LEA) included in Section B.5.2.1.
- Daily cover description has been revised to clarify that a minimum of six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction and performance and conserve on-site soil usage the minimum 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day. This information has been included in Sections B.5.2 and B.6.4.2.

SUNSHINE CANYON LANDFILL
JTD (May 2008, Amendment No. 1: September 2011, Amendment No. 2: December 2012, Amendment
No. 3: May 2013, Revised September 2014, Amendment No. 4: May 2018)
MAY 2018 TEXT, FIGURES, DRAWINGS, APPENDICES
INSERTION/REPLACEMENT INSTRUCTIONS

REMOVE	INSERT
Volume I Cover and Spine dated May 2013, Revised September 2014	New Cover and Spine dated May 2018
Volume I Table of Contents, pages i, iv and xx	Revised Table of Contents, pages i, iv and xx
Section A.1, all pages	Revised Section A.1
Section A.2, all pages	Revised Section A.2
Section B.4, page B.4-10	Revised Section B.4, page B.4-10
Section B.5, all pages	Revised Section B.5
Section B.6, page B.6-10	Revised Section B.6, page B.6-10
Volume II Cover and Spine dated May 2013, Revised September 2014	New Cover and Spine dated May 2018
Volume III Cover and Spine dated May 2013, Revised September 2014	New Cover and Spine dated May 2018
Volume III Table of Contents, page i	Revised Table of Contents, page i
Add	Appendix AE - LEA Approval of Geosynthetic Panel Product

JOINT TECHNICAL DOCUMENT

Volume I

Sunshine Canyon Landfill Los Angeles, California

November 2007

Revised February 2008

Revised May 2008

Amendment No. 1: September 2011

Amendment No. 2: December 2012

Amendment No. 3: May 2013, Revised September 2014

Amendment No. 4: May 2018

Prepared For:

Browning Ferris Industries
of California, Inc.
14747 San Fernando Road
Sylmar, California 91342

Prepared By:



TETRA TECH BAS

1360 Valley Vista Drive
Diamond Bar, California 91765
(909) 860-7777



Joint Technical Document

Sunshine Canyon Landfill

Los Angeles County, California

Volume I

November 2007, Revised February and May 2008, Amendment No. 1: September 2011,
Amendment No. 2: December 2012, Amendment No. 3: May 2013, Revised September 2014,
Amendment No. 4: May 2018

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Appendix AE	LEA Approval of Geosynthetic Panel Product

SECTION A.1

INTRODUCTION

A.1 INTRODUCTION

The following is the Joint Technical Document which provides the latest design and operations information for the Sunshine Canyon Landfill (SCL) located in Los Angeles County, California, prepared in accordance with the California Code of Regulations, Title 27 (27 CCR).

Under current regulations, the California Department of Resource Recycling and Recovery (CalRecycle) (formerly the California Integrated Waste Management Board), the California Regional Water Quality Control Boards (RWQCB), local Air Quality Management Districts and local enforcement agencies (LEA) for CalRecycle all perform inspections of waste management facilities to ensure that they are being operated in compliance with applicable Federal, State and local regulations.

Both CalRecycle and the RWQCB require an operator of a waste management facility to obtain an operating permit. Chapter 4, of 27 CCR requires an operator of a non-hazardous landfill to obtain an operating permit known as a Solid Waste Facility Permit (SWFP). The SWFP is concurred on by CalRecycle and then issued by an LEA. The RWQCB, through regulations under 27 CCR, Chapter 4, Article 4, requires that an operator of a waste management facility that discharges wastes to land obtain an operating permit known as Waste Discharge Requirements (WDR). The primary support document that is required for a landfill to obtain both a SWFP and WDR is a Joint Technical Document (JTD).

In addition to the JTD, prior to issuance of a new SWFP (or whenever there will be a significant change in design and/or disposal operations), the owner must provide CalRecycle with a Preliminary Closure and Post-Closure Maintenance Plan (PCPCMP). The objectives of the PCPCMP are to provide a reasonable estimate of the maximum expected cost to close and maintain the landfill during a 30-year post-closure period. A PCPCMP element has been included as part of this JTD.

A.1.1 PURPOSE

The purpose of this JTD is to present a comprehensive description of SCL including, but not limited to: existing and proposed design and operational features and procedures, geology, hydrogeology, climatology, and the proposed

closure design and post-closure maintenance activities. The closure and post-closure design and maintenance procedures will provide the basis for developing required cost estimates and establish the level of funding to be secured under an approved financial mechanism.

In November 2007, the original JTD was prepared in support of consolidating the then separately permitted SCL City and County refuse facilities under one SWFP and one WDR. The proposed project included the following design and operational changes:

- A maximum build-out elevation of up to 2,004 feet above mean sea level (MSL) (including final cover).
- An extension of the site life from the current estimated closure dates for the SCL City (2010) and SCL County (2013) to approximately 2037 which is consistent with the replacement CUP.
- The area utilized for landfilling from the perspective of the current solid waste facility permits increased from 246 acres (84 in SCL City and 162 in SCL County) to 375 acres (195 in SCL City and 180 in SCL County).
- A unified phasing plan was prepared to optimize soil management while complying with phasing requirements of the City Zone Change.
- A new realigned entrance road, a new scale facility and other ancillary facilities to provide state-of-the-art services for landfill users throughout the SCL active site life.
- Consolidation of the two existing working faces into one resulting in more efficient use of equipment, fuel, and overall lowering of associated emissions.
- Combining of the current daily inflow of waste from the two landfills (5,500 maximum tons per day (tpd) and 30,000 tons per week (tpw) for the SCL City and 6,600 tpd and 36,000 tpw for the SCL County) into one daily maximum of 12,100 tpd and 66,000 tpw.
- Combining of the current weekly inflow of inert/beneficial use material from the two landfills (3,000 tons per week (tpw) for the SCL City and 3,600 tpw for the SCL County) into a weekly maximum of 6,600 tons.

The JTD was revised in February and May of 2008 to address agency comments related on the changes described above. Ultimately, the JTD revision was approved and the SCL now operates under one SWFP (No. 19-AA-2000) and one WDR (Order No. R4-2008-0088).

In September 2011, Amendment No. 1 to the revised May 2008 JTD was prepared to update the emergency contact list reflecting changes in site personnel, change to the location of the greenwaste processing area to the northern portion of the landfill, update the landfill's site map to reflect the current location of various ancillary facilities (i.e., scalehouse, leachate treatment area, and gas condensate treatment area), and update the phasing limits of the landfill development to be consistent with the previously approved cell development. Amendment No. 1 was deemed consistent with the SWFP and state minimum standards.

In December 2012, Amendment No. 2 to the revised May 2008 JTD was prepared to provide the LEA and RWQCB with updated information to support the operation of the proposed gas turbine electrical generation (landfill gas-to-energy [LFGTE]) facility. This facility at SCL is being developed and will be operated by Sunshine Gas Producers, L.L.C. (SGP). For additional information regarding the proposed facility, refer to Section A.2.1.

In May 2013 and September 2014, Amendment No. 3 of the JTD was prepared to update the document for the five-year permit review. The purpose of the five-year permit review was primarily to document any changes in either the design and/or operation of the subject facility since the last permit issuance and/or since the last five-year permit review. The permit review especially noted any significant changes that have occurred or proposed changes which would invoke a modification or revision of the current permit and possibly invoke additional environmental assessment.

As part of the five-year permit review, the closure and post-closure cost estimates were revised in compliance with the recently revised (at the time of the amendment) regulations found in 27 CCR, Sections 21780 through 21865. In particular, these regulations require the use of third-party costs and Caltrans rates,

and the inclusion of supporting documentation for all referenced costs (i.e., 27 CCR, Sections 21815 and 21840).

In addition to the five-year permit review, 27 CCR, Section 22101(b) requires that on or before the date of the first permit review, a non-water release corrective action study and cost estimate be completed and submitted with the permit review. 27 CCR, Division 2, Subdivision 1, Subchapter 5, Sections 22100 – 22103 require that owners and operators of all disposal facilities develop cost estimates and a plan for initiating and completing known or reasonably foreseeable water release and non-water release corrective actions. The non-water release corrective action plan (CAP) for SCL includes the evaluation and analyses of all the applicable reasonably foreseeable causal events as well as the long-term performance of the final cover system and the adequacy of containment structure and environmental monitoring and/or control systems. Additionally, the non-water release CAP includes cost estimates associated with each relevant causal event along with the findings from the evaluations/analyses. The amended JTD included the CAP study and cost estimate.

The information presented in this Amendment No. 4 to the JTD is to update daily cover operations to include the use of a non-reusable geosynthetic panel product as alternative daily cover as approved by the local enforcement agency (SCL LEA). Also, the daily cover description has been revised to clarify that a minimum of six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction performance and conserve on-site soil usage the 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day.

A.1.2 REPORT ORGANIZATION

The JTD is divided into six major components, Parts A, B, C, D, E and F. Part A provides general information on the JTD's format and content, the proposed changes in landfill development and operations, including the proposed closure and post-closure maintenance plan element and document references. Part B includes disposal site facility and operational information. Part C includes information on the existing and proposed disposal site design. Part D includes

information on the site characteristics. Part E describes the proposed closure design and post-closure maintenance activities. Finally, Part F provides the cost estimates associated with the proposed closure design and post-closure maintenance activities described in Part E.

The JTD is separated into three volumes with Parts A through F, followed by the tables, figures and full-sized drawings included in Volume I and the appendices referenced throughout the JTD included in Volumes II and III.

Regulatory Requirements Cross-Reference Table

This JTD includes the required cross-reference index to enable the LEA, RWQCB, CalRecycle and other readers to easily find the appropriate section in Parts A through F which corresponds to specific regulatory requirements set forth in 27 CCR, Chapters 3 and 4, and the Code of Federal Regulations, Title 40 (40 CFR), Part 258 (also known as Subtitle D). This information is included in Tables 1 (State Water Resources Control Board [SWRCB] JTD Index) and 2 (JTD Index - CalRecycle Requirements).

SECTION A.2

PROPOSED LANDFILL DEVELOPMENT DESCRIPTION

A.2 PROPOSED LANDFILL DEVELOPMENT DESCRIPTION

A.2.1 PROPOSED LANDFILL DESIGN AND DEVELOPMENT

A.2.1.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The County of Los Angeles Department of Regional Planning and the Board of Supervisors (Lead Agency) certified the adequacy of the Final EIR (SCH 89071210: 1993), and that it had reviewed and considered the Final EIR in reaching its decision on approving landfill operations in portions of Sunshine Canyon located in Los Angeles County. The CEQA process culminated in the issuance of the 1993 Conditional Use Permit (CUP). Board of Supervisors approval and the supporting Final EIR envisioned that disposal operations would eventually cross back into City portion of the canyon, and that the City and County operations would be combined into a single landfill.

The City of Los Angeles Planning Commission and City Council (Lead Agency) certified the adequacy of the Final SEIR (SCH 92041053: 1999), and certified that it has reviewed and considered the Final SEIR in reaching its decision on approving City Landfill Unit 2. Certification was provided by Los Angeles City Council Resolution. Subsequent to the Los Angeles City Council Resolution, a Notice of Determination (NOD) was filed with the Los Angeles County Clerk. The SEIR, and the County EIR which was incorporated by reference, reviewed all environmental impacts associated with the development of a consolidated SCL.

The County of Los Angeles Department of Regional Planning (Lead Agency) prepared an Addendum (October 2004) to the FEIR and SEIR, and certified that it had reviewed and considered the FEIR, SEIR, and Addendum in reaching its decision on approving the replacement CUP issued in February 2007 for the City and County Landfill Consolidation. The Addendum to the County Final EIR and City SEIR was prepared to describe the CUP revisions, relevant background information, and the basis for the conclusion that there has been no substantial change to the project or to the environmental impacts analyzed.

Previous CEQA documents prepared for SCL, as described above, included a component to control LFG through flaring. The potential for a LFGTE project was identified in the 1999 Final SEIR; however, because the proposed LFGTE

project would change the method of handling and controlling LFG previously analyzed, the 2012 Final SEIR (under State Clearinghouse No. 92041053) is considered to be a modification to the previously approved CEQA documents. The Final SEIR for the LFGTE project was certified on April 27, 2012 and a copy of the NOD was filed with the Los Angeles County Clerk. CEQA for the LFGTE facility is further discussed in Section B.8.2.9.

A.2.1.2 PROPOSED DESIGN FEATURES AND INFORMATION UPDATES

- No design changes are proposed at this time.

A.2.2 **PROPOSED LANDFILL OPERATIONS**

This JTD has been updated to include the following operational changes:

- Update Supervisory Structure personnel in Section B.4.7.3.
- Daily cover operations to include the use of a non-reusable geosynthetic panel product as an alternative daily cover (ADC) as approved by the local enforcement agency (SCL LEA) included in Section B.5.2.1.
- Daily cover description has been revised to clarify that at a minimum six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction and performance and conserve on-site soil usage the 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day. This information has been included in Section B.5.2.

A.2.3 **PRELIMINARY CLOSURE AND POST-CLOSURE MAINTENANCE PLAN (PCPMP)**

This JTD integrates a PCPMP element prepared in accordance with current regulations and included as Parts E and F of this document.

A separate Final Closure Plan will be prepared and submitted to the appropriate regulatory agencies (i.e., LEA, CalRecycle, and RWQCB) two years prior to the anticipated closure date for any portion thereof or the entire landfill. A separate discretionary action and CEQA review and clearance for closure activities will be required prior to approval of the Final Closure Plan.

SECTION B.4

**OPERATING CRITERIA
(27 CCR, SECTION 21600(b)(5))**

- odorous load identification and reporting of such loads to supervisor for appropriate handling;
- site monitoring systems and inspections; and
- reporting of suspicious loads to supervisor.

A record of personnel training will be placed in the landfill operating record.

B.4.7.3 SUPERVISORY STRUCTURE (27 CCR, SECTION 21600(b)(5)(I))

The General Manager has general oversight of all staff at the site, including but not limited to the following staff:

- Division Manager
- Environmental Manager
- Controller
- Operations Supervisors
- Maintenance Supervisor
- Scale House Supervisors

Below is a list of managers and supervisors. Please note that personnel assignments are subject to change.

Job Title	Name
General Manager	Chris Coyle
Division Manager	Bill Carrt
Environmental Managers	Josh Mills Tuong-Phu Ngo, Valorie Moore
Operations Supervisors	Fred Jones Lane Fife
Scale House Supervisor	Patricia Trejo

B.4.7.4 EMERGENCY CONTACT LIST

In accordance with 27 CCR, Section 20615, the LEA, local health agency and fire authority have been notified in writing of the names of the site personnel for SCL to contact in the event of an emergency, along with the emergency procedures, are included in Appendix F. This list is also posted in the site office and operations' trailer.

SECTION B.5

COVER

(27 CCR, SECTION 21600(b)(6)(A))

B.5 COVER **(27 CCR, SECTION 21600(b)(6)(A))**

B.5.1 COVER MATERIALS (27 CCR, SECTION 21600(b)(6)(A))

Excavation/soil stockpiling operations for daily cover use have been and will continue to be conducted concurrent with refuse disposal throughout the development of the landfill. All near term soil requirements for daily and intermediate cover uses are anticipated to be met with on-site soils generated from excavation and stockpiling activities. Soils are excavated from future phases of development and are placed in designated stockpile areas.

Excavation and stockpiling operations are conducted so as not to interfere with disposal and other ancillary operations. Proper drainage control is maintained and the stockpile areas are graded to promote lateral run-off of precipitation into drainage control facilities. Erosion control for the stockpiles is provided by either silt fences, hay bales, earthen berms or sand bags. In addition, SCL has a Storm Water Pollution Prevention Plan (SWPPP) prepared to comply with the National Pollutant Discharge Elimination System (NPDES) requirements included in the Statewide General Permit for Industrial Activities. For additional information regarding excavation activities, see Section C.3.2.

B.5.2 COVER FREQUENCY (27 CCR, SECTION 21600(b)(6)(B))

The purpose of daily cover soil or an equivalent alternative daily cover (ADC), as approved by the LEA, is to provide a suitable barrier to the emergence of vectors, prevent windblown trash and debris, minimize the escape of odors, prevent excess infiltration of surface water and hinder the progress of potential combustion within the landfill. Daily cover in the form of soil material or an ADC is placed over all exposed refuse at the end of each working day. Except in areas where ADC is used, the working face is covered with a minimum of six (6) inches of compacted soil after the facility is closed to the public. The soil is placed and compacted with heavy equipment and sloped to minimize infiltration of precipitation and promote surface water runoff. A soil sealant is also applied, in conformance with the dust abatement program developed in conformance with

SCAQMD Rule 403. In an effort to enhance landfill gas extraction performance and conserve on-site soils, the minimum 6-inch daily soil cover is peeled back to approximately one-inch prior to placement of the next day's waste. The recovered daily cover soil is stockpiled near the working face for placement at the end of the day.

Only soil will be used as daily cover on any operating day before a period when the landfill will be closed for more than 24 hours, unless allowed otherwise for an approved ADC. This will generally occur on Saturdays and the day before a scheduled holiday.

B.5.2.1 ALTERNATIVE DAILY COVERS (27 CCR, SECTION 21600(b)(6)(B))

Alternative daily covers (ADC) will be used to conserve air space and native soils. In addition, the use of ADC will provide the operator an alternate method of covering the working face during inclement weather. SCL will utilize geosynthetic panels, processed green material, and/or soil in any combination on any particular day as permitted by the current SWFP for SCL (see Appendix D). Other ADC materials specifically approved in 27 CCR may also be utilized as authorized by the appropriate regulatory agencies. ADC materials not specifically approved in 27 CCR will be subject to site specific demonstration projects that are approved by the LEA to establish suitability as daily covers. Prior to the use of other ADC materials, the facility will comply with 27 CCR, Section 20690(b) requirements.

In a letter dated December 20, 2017 (see Appendix AE), the SCL LEA approved the use of Enviro Cover, a non-reusable geosynthetic panel product, as ADC based upon a two-year pilot project. This material is approved as an ADC by CalRecycle (27 CCR, Chapter 3, Subchapter 4, Section 20690(b)(1)). A discussion of the use of this ADC is provided below after reusable tarps and processed green material.

SCL will use reusable geosynthetic fabric (tarps), or non-reusable geosynthetic panel product and processed green material as ADC material.

Reusable Tarps and Processed Green Material

The reusable tarps are manufactured by several companies and are available in

several sizes with 75 feet by 100 feet panel the most predominant size in use. Other sizes will be used depending upon the area to be covered and their ease in deployment. The reusable tarps are made of polyethylene or polypropylene and typically about 70 mils in thickness. The reusable tarps are ultraviolet stabilized, chemical resistant, nylon reinforced, and maintain a low permeability to provide maximum run-off. The reusable tarps will be secured by sandbags, tires or soil and deployed either manually or with the use of heavy equipment.

Reusable tarps will be removed from the working face at the beginning of the business day and inspected for rips or tears and repaired as necessary. Generally, rips or tears twelve inches or larger will be repaired prior to re-deployment. Reusable tarps will not be used if the landfill will be closed the following day. Native soils will be used exclusively as daily cover material on those days.

Processed green material used as ADC will be spread over the compacted refuse surface at the conclusion of the workday. The area of refuse receiving processed green material ADC will be completely covered in a compacted layer with a minimum of 6 inches and no more than an average of 12 inches. Processed green material ADC utilized on the prior day will either be covered by additional refuse or receive soil daily cover by the conclusion of work on the following day. Processed green material ADC will not be used if the landfill will be closed the following day. Native soils will be used exclusively as daily cover material on those days.

Processed green material utilized for ADC will originate from either off site processor(s) or from an on site processing operation that may be established in the future. Regardless of the source, the processed green material ADC will be clean and free of refuse contamination and be processed (ground, shredded, screened, or by other means) to provide a compacted material free of open voids in the ADC cover.

Geosynthetic reusable tarps and processed green materials have been shown to fulfill the regulatory prescriptive standards for daily cover. The geosynthetic reusable tarps and processed green material ADC have been determined by the CalRecycle (formerly CIWMB) to provide equivalent protections as soil cover while reducing the need for on-site soil usage. Vectors usually associated with landfill operations included flies and rodents. Previous studies, including the

ADC geosynthetic reusable tarps site specific demonstration project, indicate that rodents are not common to the facility and should not be considered a problem. ADCs will help minimize dust generated on site by reducing the number of truck trips per day for daily soil cover. Watering of the approaches to the working face and roadways will continue.

The use of soil during the rainy season is cumbersome and at times, difficult to apply. Using ADC reusable tarps, and/or processed green material will minimize this problem and improve operations near the working face by providing for a safer working environment. Additionally, the use of ADC in conjunction with other winterization activities will minimize the amount of soil “tracked” onto the main haul road.

Assessment of the ADC’s performance will occur throughout its use on the landfill. Extensive use of geosynthetic reusable tarps and processed green material as ADC throughout the State of California have demonstrated that use of such does not impact water quality.

The following Table 5 summarizes the properties of the ADC material with the corresponding properties of soil that have been used at the site for daily cover:

TABLE 5
SUNSHINE CANYON LANDFILL
COMPARISON OF GEOSYNTHETIC REUSABLE TARPS AND PROCESSED
GREEN MATERIAL TO DAILY SOIL COVER

Property	Daily Soil Cover	Synthetic Reusable tarps	Processed Green Material
Hazardous or pathogenic nature of the cover	None	None	None
Resistance to heat and fire after application and compaction	On site soils do not burn or propagate flame and will have a tendency to smother fires	The reusable tarps used will have a flame retardant coating applied	Naturally occurring moisture in the green material and the 1-day limitation in use will max. Resistance to heat and fire.
Field permeability after application and compaction	Soil analysis indicate a permeability of 1.0×10^{-5} at 90%	Most reusable tarps are water repellent; runoff will be controlled and	Like soil, processed green material will absorb water until the surface is saturated to cause lateral

	compaction	managed accordingly	run-off.
Compaction capability of the cover	Soils are conducive to compaction	Reusable tarps will not be subject to compaction	Processed green material is conducive to compaction as noted in the applicable regulations.
The ability of the cover to control the emergence, attraction, or harborage of vectors	Vectors can emerge from the waste; however, compacting the cover significantly reduces emergence and breeding	Control similar to soil; waste types and operation dictate severity of emergence and attraction	Similar performance as soil.

The use of flame retardant reusable tarps and the moisture retained in processed green material reduces the potential for a fire occurring or spreading. If a fire were to occur, the following procedures would be followed:

- Isolate the burning materials from the other wastes;
- Smother the burning waste with soil;
- Allow the waste pile to cool for 24 hours; inspect for smoldering;
- Incorporate into the working face if safe; and
- Report all incidents.

Current and prior experiences with fires at the site have not indicated a problem. Soil will be used as daily cover on Saturdays or more frequently as required to maintain a safe and neat working environment. On those days when soil will be used as cover, operations staff will compact the soil.

In general, the waste types covered with the geosynthetic reusable tarps and/or processed green material will be municipal solid wastes, commercial and industrial waste. If a tarp needs to be replaced or is out of service for repair, soil or green waste will be used until repaired or replaced.

Processed Green Material Calculation

As noted previously, the working face area will be approximately 120,000 square feet. An area of this size, if completely covered with an average depth of 12 inches of processed (95 percent less than 6 inches) green material ADC would consume approximately 1,550 tons per day of processed green material

ADC. This quantity is calculated as follows:

Active Face Area to be Covered	=	120,000 sq. ft.
Depth of ADC Material	=	12 in. (1 ft.)
Compacted ADC Material Density	=	700 lbs./cu. yd. (typical)

Quantity of ADC Material = (120,000 sq.ft.) x (1 ft. depth) x 700 lbs./cu.yd.)
(27 cu.ft./cu.yd.) x (2000 lbs./ton)

=1,555 tons (round up approx. 1,560 tons)

It is unlikely that the operations will have access to this quantity of processed green material on a regular basis, therefore, the operation will also make use of geosynthetic tarp ADC and/or soil. Furthermore, SCL is limited by its local land use entitlements to an average tonnage of 6,600 tons per week (1,100 tpd average on a 6-day week) of exempt waste, such as green waste used for ADC.

During periods of inclement weather (e.g. high winds), when use of ADC reusable tarps is not practical, its use may be suspended and soil or green waste used as daily cover.

Odor will be evaluated (qualitatively) if the site receives complaints that can be attributed to the use of the ADC reusable tarps or processed green material. Fires will be reported to the LEA within 24 hours of occurrence. SCL will continue its routine litter collection and abatement program. The working face will be generally maintained at the dimensions set forth above but may be larger or smaller as waste inflow rates increase or decrease respectively.

Non-Reusable Geosynthetic Panel Product

The geosynthetic panel product is classified as a non-reusable geosynthetic alternative daily cover in ASTM D 6523-00 (2009). The geosynthetic panel product will be applied at the end of each operating day and will be left in place at the start of the following day's operations; no removal of the material will be conducted. The geosynthetic panel product will be placed over the entire deck of the working face. It will not be placed on any outside slopes or slopes that will not be part of the active working face for longer than 180 days. Soil will be used as cover material on the outside and temporary slopes. The material will

be used on one lift per day. The maximum size of the working face deck area where the geosynthetic panel product will be applied will be two to three acres. The geosynthetic panel product will typically be covered the next operating day with additional waste and may be left in place for up to 48 hours to cover weekends.

The geosynthetic panel material will be deployed using the Enviro™ Cover System (ECS) Deployer Model 800 (Deployer). The placement of the geosynthetic panel product material will proceed as follows:

- The Deployer is loaded with a roll of geosynthetic panel material and on-site ballast material (soil or appropriate beneficial reuse material);
- Verify that the outside edge is positioned a minimum of 5 feet from the outside of the waste material;
- During the application process, the geosynthetic panel material is unrolled from the Deployer while ballast material is simultaneously discharged at a controlled rate to securely anchor the geosynthetic panel material onto the working face;
- On successive adjacent runs to deploy the geosynthetic panel material, an overlap is put down, thus forming a compression-type seal creating a continuous closure and impermeable barrier between the waste and the environment.

On-site soil or beneficial reuse material will be used for the ballast material. The ballast material is deployed by a hydraulic chain floor. The ballast volumes released can be adjusted and controlled by the Deployer operator. The typical volume of ballast is approximately 0.75 m³ of ballast for every 150 m² of placed geosynthetic panel material. The Operations Supervisor will ensure an adequate stockpile of ballast material is available at the working face prior to placement of the geosynthetic panel material.

Since the geosynthetic panel material is a degradable product with a shelf-life and storage UV restrictions, rolls of the material are enclosed in UV protective packaging equipped with lifting slings for easy and safe handling. The outer polyethylene sleeve will not be removed until a roll is ready to be used. If a partial roll is left over, this roll will be the first one used the following day.

At the end of the working day, an Operations Supervisor will inspect the geosynthetic panel product to ensure there are no tears or punctures. This will be one of the last observations after the closing operations are conducted. If there are any tears or punctures in the geosynthetic panel product, a new sheet of material will be placed along with ballast material to ensure any and all tears or punctures are covered. Each morning the area covered by the geosynthetic panel material will be inspected prior to the start of the receipt of trash to ensure the material remained in place throughout the night. If any significant areas were exposed (e.g., due to windy conditions that began after the cover was laid down) adjustments to deployment will be made accordingly to prevent future occurrences.

During high wind conditions, operational adjustments will be made to compensate for the weather conditions. Typically, this will include the following:

- Placement of additional ballast material, if needed.
- Providing for additional overlap of the panels, if needed.

During extreme wind events, when it is too windy to effectively deploy the geosynthetic panel material, the working face area will be covered with a minimum 6 inches of soil cover.

B.5.2.2 BENEFICIAL REUSE WASTE TYPES

Processed asphalt and concrete rubble will be used in road base and for construction of wet weather operation pads and access roads. This beneficial reuse application will be used to conserve native resources and to reduce the importation of like construction material on-site, thus reducing truck traffic. Other processed asphalt and concrete rubble material not specifically approved in the regulations will be subject to site specific demonstration projects that are approved by the LEA to establish suitability as beneficial reuse.

Processed asphalt and concrete rubble will be used for roads and wet weather operations pads. Material will be spread throughout the pre-designated area at an average depth of approximately 24 inches to provide stable, leveled, and compacted working surface for vehicles to utilize. Material will be spread and handled utilizing heavy equipment and manually as necessary. These working

surfaces will be especially necessary during wet conditions to avoid trucks from getting stuck in muddy conditions. The following analysis can be used as a guideline but actual amounts will be dependant on specific weather conditions during the wet season.

Annually the site develop/constructs approximately 3 wet weather pads and wet weather pad access roads. The approximate dimensions are 350 ft. x 350ft. totaling 122,500 sq.ft. In addition, the operation develops approximately 1,000 linear feet, and redevelops an additional 1,000 linear feet, of necessary access/haul roads at an approximate width of 50 ft., totaling 100,000 sq.ft. The annual combined area of wet weather pads and access roads is approximately 467,500 sq.ft.

Construction of wet weather pads and roads would consume approximately 56,100 tons of processed asphalt and concrete rubble material. This quantity is calculated as follows:

$$\begin{aligned}
 \text{Wet weather pad} &= 367,500 \text{ sq.ft} \\
 \text{Access/haul roads} &= 100,000 \text{ sq.ft.} \\
 \text{Compacted Density} &= 3,240 \text{ lbs./cu. yd. (Ref: Vulcan Materials, Inc.)} \\
 \\
 \text{Quantity of Material} &= \frac{(467,500 \text{ sq.ft.}) \times (2 \text{ ft. depth}) \times (3240 \text{ lbs./cu.yd.})}{(27 \text{ cu.ft./cu.yd.}) \times (2000 \text{ lbs./ton})} \\
 \\
 &= 56,100 \text{ tons}
 \end{aligned}$$

The following lists the total tonnage of processed asphalt and concrete rubble material received and utilized at SCL for beneficial reuse in recent years.

<u>Years</u>	<u>Tonnage Received</u>
2011	82,562
2012	104,578
2013	82,323

In general, operations has had ample sources of processed asphalt and concrete rubble material. Materials of this type are generated in the course of road and parking lot construction/demolition and are received intermittently throughout the year in quantities of up to several thousand tons per day. Material received during periods when wet weather pads or roads are under construction is used

as it is received; otherwise it is placed in a stockpile for storage until it is needed. These materials are used solely for the purposes described and are not discarded or landfilled. In the event there are shortages of processed asphalt and concrete rubble material, operations may purchase them from vendors as needed.

B.5.3 INTERMEDIATE COVER PLACEMENT (27 CCR, SECTION 21600(b)(6)(C))

Intermediate cover is defined in 27 CCR, Section 20164, as cover material on areas where additional cells are not to be constructed for 180 days or more to control vectors, fires, odors, blowing litter, scavenging and drainage. In accordance with 27 CCR, Section 20700, a minimum 12-inch thick layer of suitable cover material or equivalent (as approved by the LEA) is placed over the top, side slopes and working face of an advancing lift, refuse cell or portions of the disposal area where no additional refuse is to be deposited within 180 days.

In accordance with Los Angeles County Conditional Use Permit (CUP) Conditions, BFI will establish a temporary vegetation cover on areas of the landfill that have received intermediate cover and are to remain inactive for a period longer than 180 days. Temporary vegetative cover is established according to recommendations from qualified biologists who have evaluated soil conditions at the SCL and specified appropriate planting mixes, soil amendments and fertilizers.

B.5.4 ALTERNATIVE INTERMEDIATE COVER

No AICs are proposed for SCL. In the event that an AIC is proposed, SCL will comply with the requirements of 27 CCR, Section 20700, and would obtain approval from the appropriate regulatory agencies.

B.5.5 FINAL COVER (27 CCR, SECTION 21090(a)(2))

The purposes of a final cover are to minimize surface water intrusion, accommodate settlement and subsidence, isolate wastes from the surface, and reduce the potential for odors and LFG emissions. The cover also provides a base for vegetation, which will reduce drainage velocities and minimize erosion and abrasion of the cover. The State minimum standard prescriptive design for a landfill requires a single low-permeability soil layer cover or a cover which meets the permeability of the bottom liner system.

Several factors were taken into consideration in evaluating the cover design for SCL to ensure adequate performance of the final cover. These factors included regulatory requirements, the geometry of the landfill, local climatic conditions, potential landfill settlement, erosion protection, vegetative growth, the waste liner system design and end use at closure. Section E.1.3 of Part E includes information regarding the proposed final cover design at SCL.

SECTION B.6

HANDLING

(27 CCR, SECTION 21600(b)(7))

concurrence of the LEA, the facility manager will direct the area to be buried immediately and log the incident in the Log of Special Occurrences.

Los Angeles County Coroner (323) 343-0755

B.6.4.2 INCLEMENT WEATHER OPERATIONS

Specific operational procedures have been developed and implemented to minimize potential adverse affects of inclement weather on day-to-day operations at SCL. These procedures are described below for summer (i.e., dry and/or windy) and winter (i.e., rainy) conditions.

Santa Ana Conditions/High Winds

When Santa Ana conditions/high winds exist, the following measures are used at SCL to mitigate fugitive dust and litter as necessary:

- more frequent watering of access roads, soil excavation areas, and top deck areas will be implemented by having the water truck operate constantly during operations and potentially renting an additional water truck if needed;
- use of fabric tarp ADCs will be avoided and existing ADC areas will be covered with a minimum of 6 inches of daily cover soil;
- decrease the size of the working face;
- install additional litter fences downwind of the active landfilling area; and
- designate additional site personnel full-time to litter control.

Details of the dust control program are contained in Section 7.7.1.2. The litter control program is detailed in Section 7.7.1.3.

Wet Weather Operations

Prior to the onset of wet weather each winter, one or more wet weather pads or operating areas will be prepared. The location of the wet weather pad will be determined on an annual basis, using the following criteria:

JOINT TECHNICAL DOCUMENT

Volume II

Sunshine Canyon Landfill Los Angeles, California

November 2007

Revised February 2008

Revised May 2008

Amendment No. 1: September 2011

Amendment No. 2: December 2012

Amendment No. 3: May 2013, Revised September 2014

Amendment No. 4: May 2018

Prepared For:

Browning Ferris Industries
of California, Inc.
14747 San Fernando Road
Sylmar, California 91342

Prepared By:



TETRA TECH BAS

1360 Valley Vista Drive
Diamond Bar, California 91765
(909) 860-7777



Joint Technical Document

Sunshine Canyon Landfill

Los Angeles County, California

Volume II

November 2007, Revised February and May 2008, Amendment No. 1: September 2011,
Amendment No. 2: December 2012, Amendment No. 3: May 2013, Revised September 2014,
Amendment No. 4: May 2018

JOINT TECHNICAL DOCUMENT

Volume III

Sunshine Canyon Landfill Los Angeles, California

November 2007

Revised February 2008

Revised May 2008

Amendment No. 1: September 2011

Amendment No. 2: December 2012

Amendment No. 3: May 2013, Revised September 2014

Amendment No. 4: May 2018

Prepared For:

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Joint Technical Document

Sunshine Canyon Landfill

Los Angeles County, California

Volume III

November 2007, Revised February and May 2008, Amendment No. 1: September 2011,
Amendment No. 2: December 2012, Amendment No. 3: May 2013, Revised September 2014,
Amendment No. 4: May 2018

JOINT TECHNICAL DOCUMENT FOR THE SUNSHINE CANYON LANDFILL

VOLUME III

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APPENDIX AE

LEA APPROVAL OF GEOSYNTHETIC PANEL PRODUCT



December 20, 2017

Mr. Chris Coyle, General Manager
Sunshine Canyon Landfill / Republic Services
14747 San Fernando Road
Sylmar, CA 91342

Subject: Sunshine Canyon Landfill (SWIS No. 19-AA-2000)
LEA Approval of Alternative Daily Cover Evaluation Report – Second Year,
Pilot Project Using Geosynthetic Panel Product”, dated October 11, 2017

Dear Mr. Coyle,

On October 12, 2017, the Alternative Daily Cover (ADC) Pilot Project at Sunshine Canyon Landfill concluded after a period of two years. As required by the conditions of approval, Republic Services submitted to the Sunshine Canyon Landfill Local Enforcement Agency (SCL LEA) a final evaluation report titled “Alternative Daily Cover Evaluation Report – Second Year, Pilot Project Using Geosynthetic Panel Product”, dated October 11, 2017. The SCL LEA has completed reviewing the evaluation report along with the submitted monthly reports on the daily inspections of the ADC and has the following comments:

The SCL LEA has conducted its own independent review and evaluation of the effectiveness of the ADC at Sunshine Canyon Landfill. The SCL LEA took a holistic systems approach in evaluating the ADC that took many factors into consideration such as: odor complaints (all complaints), the timing of the implementation of the various aspects of the SCAQMD Abatement Order (e.g., LFG wells, and pump installation schedule), weather conditions (e.g., extraordinary wet season), surface emissions data, in-person observations of the trash removed during LFG well drilling, leachate seeps, and daily SCL LEA observations. Special attention was given to the performance of the ADC for Cell CC-3B, which was completed in April 2017. Cell CC-3B is a cell that utilized ADC and abuts up against an area in which 9” of compacted soil was utilized for daily cover without peel-back (shown in figure below outlined in red).

SCL Monitoring Grids ADC Evaluation

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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31																										

The specific monitoring grids that comprise of the Cell CC-3B are as shown below:

CELL CC-3B ADC GRIDS						
	S16	T16				
R17	S17	T17	U17			
R18	S18	T18	U18	V18	W18	
		T19	U19	V19	W19	X19
		T20	U20	V20	W20	X20
		T21	U21	V21	W21	X21
			U22	V22	W22	X22

The SCL LEA conducted independent analysis of the instantaneous surface emissions data and the integrated surface emissions data; and conducted data mining and statistical analysis. The SCL LEA also installed visqueen test plots on the side slopes and flat areas of the ADC Cell CC-3B to supplement the surface emissions data analysis. The complete detailed technical files (Excel Spreadsheets) the SCL LEA utilized in the analysis of the ADC have been made available for review in a folder titled "SCL LEA Odor Mitigation Technical Data and Analysis File (2017)" at the following link:

[https://www.dropbox.com/home/Sunshine%20Canyon%20Landfill%20Local%20Enforcement%20Agency%20Odor%20Mitigation%20Folder/SCL%20LEA%20Odor%20Mitigation%20Technical%20Data%20and%20Analysis%20File%20\(2017\)](https://www.dropbox.com/home/Sunshine%20Canyon%20Landfill%20Local%20Enforcement%20Agency%20Odor%20Mitigation%20Folder/SCL%20LEA%20Odor%20Mitigation%20Technical%20Data%20and%20Analysis%20File%20(2017))

The specific file for the SCAQMD Rule 1150.1 Analysis is titled "SCL-Rule1150.1Monitoring-110217.xlsx"

[https://www.dropbox.com/home/Sunshine%20Canyon%20Landfill%20Local%20Enforcement%20Agency%20Odor%20Mitigation%20Folder/SCL%20LEA%20Odor%20Mitigation%20Technical%20Data%20and%20Analysis%20File%20\(2017\)?preview=SCL-Rule1150.1Monitoring-110217.xlsx](https://www.dropbox.com/home/Sunshine%20Canyon%20Landfill%20Local%20Enforcement%20Agency%20Odor%20Mitigation%20Folder/SCL%20LEA%20Odor%20Mitigation%20Technical%20Data%20and%20Analysis%20File%20(2017)?preview=SCL-Rule1150.1Monitoring-110217.xlsx)

Examples of key findings made by the SCL LEA are based on detailed technical analysis, the key analysis are described below:

The general trend after the LFG wells and pumps that were installed (August 2017) for the integrated surface readings in the grids that overlay Cell CC-3B are in compliance with the regulatory requirements, whereas in the past, there were exceedances of the surface emissions threshold (>25 ppm). The SCL LEA is continuously monitoring on a monthly basis the surface emissions data reported in the SCAQMD Rule 1150.1 reports.

The figures below show the overall location of the monitoring grids with the integrated surface emissions data for September 2017. The spreadsheet / database will be periodically updated and analyzed by the SCL LEA to determine the continued impact of the ADC within the context of being one of the complementary mitigations measures with the totality of the overall best combination of mitigation measures.

SCL Monitoring Grids ADC Evaluation

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
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CELL CC-3B ADC GRIDS

S16	T16
R17	S17
T17	U17
R18	S18
T18	U18
V18	W18
T19	U19
V19	W19
X19	
T20	U20
V20	W20
X20	
T21	U21
V21	W21
X21	
U22	V22
W22	X22

September 2017
Integrated Surface Readings
(ppmv Methane)

10.10	32.51	22.47	6.49	7.98	4.84				
3.05	11.11	16.26	5.15	6.65	7.25	6.92			
2.67	6.07	5.03	7.03	4.04	10.27	2.78			
5.37	6.60	23.74	3.90	3.49	3.98	3.36			
5.25	3.45	7.98	2.56	3.59	9.02	3.80	3.54	3.51	
3.60	4.55	10.87	6.78	3.74	3.99	4.55	4.63	4.66	
7.79	3.80	9.07	10.71	8.65	4.54	2.43	3.54	2.59	
3.82	3.95	11.72	10.08		7.61	4.37	3.80	4.45	
4.00	4.06	4.10	4.00	S					

Newer Monitoring Grid-Majority is Not 9 Inch Soil
 Newer Monitoring Grid-Majority is 9 Inch Soil
 Old North Monitoring Grid-Majority is Not 9 Inch Soil
 Old North Monitoring Grid-Majority is 9 Inch Soil
 Old South Monitoring Grid-Majority is Not 9 Inch Soil

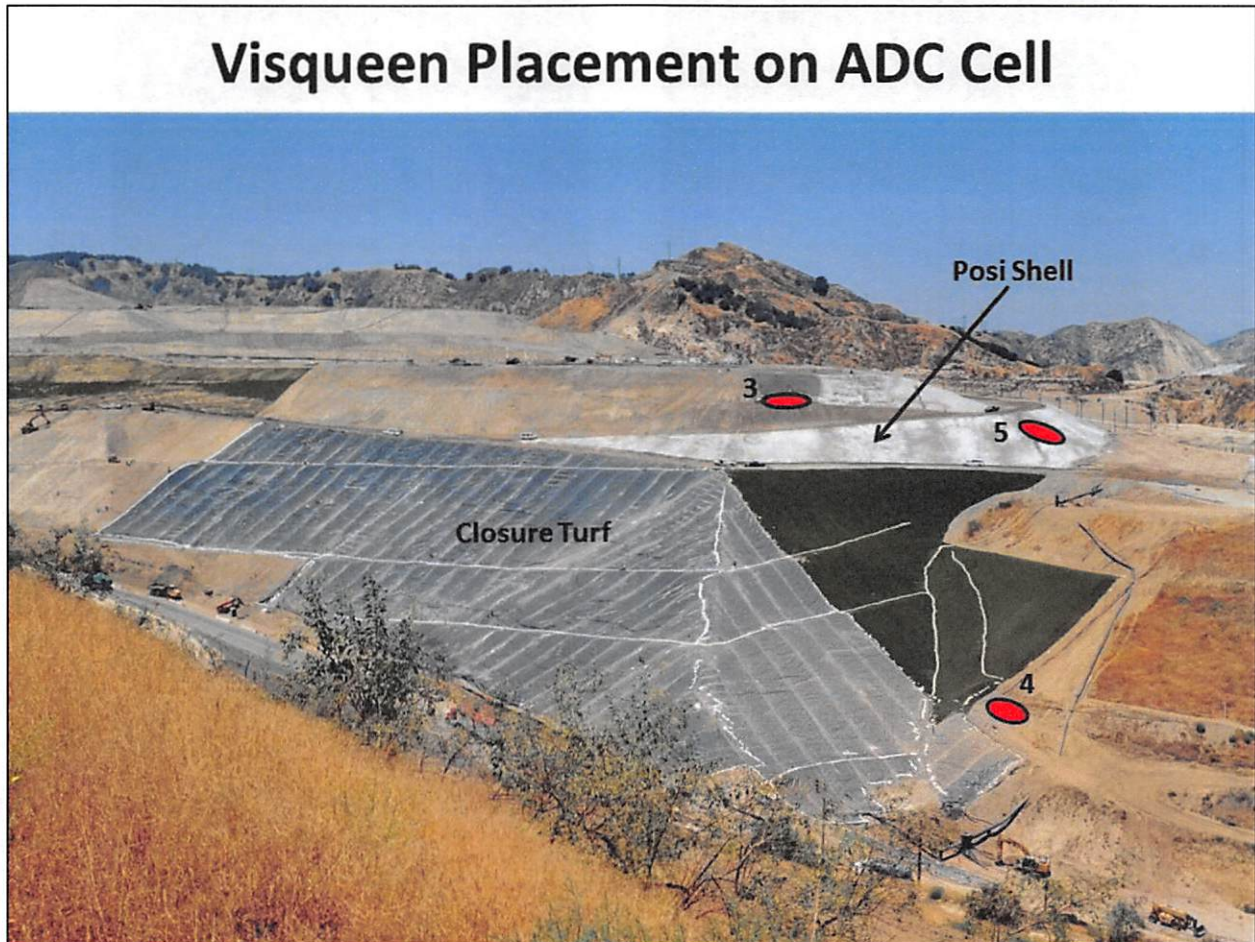
September 2017 Cell CC-3B (ADC Cell) Integrated Surface Readings (ppmv Methane)

10.10	32.51	22.47	6.49	7.98	4.84				
3.05	11.11	16.26	5.15	6.65	7.25	6.92			
2.67	6.07	5.03	7.03	4.04	10.27	2.78			
5.37	6.60	23.74	3.90	3.49	3.98	3.36			
5.25	3.45	7.98	2.56	3.59	9.02	3.80	3.54	3.51	
3.60	4.55	10.87	6.78	3.74	3.99	4.55	4.63	4.66	
7.79	3.80	9.07	10.71	8.65	4.54	2.43	3.54	2.59	
3.82	3.95	11.72	10.08		7.61	4.37	3.80	4.45	
4.00	4.06	4.10	4.00	S					

Individual Grid
Emissions by Month
for Grids within Cell
CC-3B

Newer Monitoring Grid-Majority is Not 9 Inch Soil
 Newer Monitoring Grid-Majority is 9 Inch Soil
 Old North Monitoring Grid-Majority is Not 9 Inch Soil
 Old North Monitoring Grid-Majority is 9 Inch Soil
 Old South Monitoring Grid-Majority is Not 9 Inch Soil

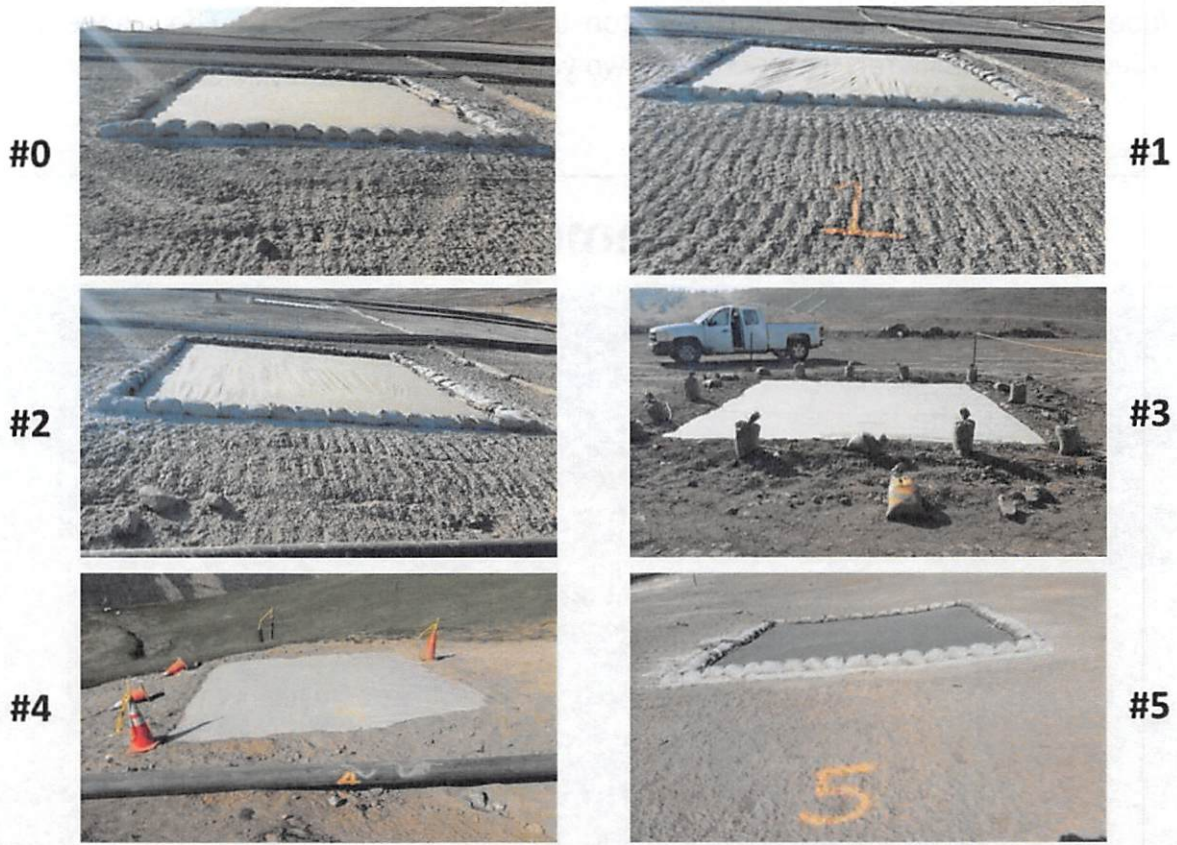
In order to provide a more real-time physical observable evaluation of the impact of the ADC, the SCL LEA utilized a visqueen field test (as previously done to demonstrate surface emissions) at multiple locations on the ADC Cell CC-3B. The visqueen was installed and the tests ran for a period of two weeks in October 2017.



The SCL LEA evaluation of the ADC utilized in Cell CC-3B also had to take into consideration the implementation of the intermediate cover enhancement (ICE) upgrades mandated by the SCAQMD Abatement Order. Three locations for installing the visqueen were selected on the ADC cell (Location ID# 3, #4, and #5); locations representing the locations most likely to have surface emissions (e.g., steepest slope (#5), transition border area (#4), and in an area that had no enhancement to the intermediate cover (#3).

No "puffing" in the visqueen was observed over a period of two weeks. Also, no leachate seeps were observed by the SCL LEA.

October 14, 2017 (Last Day after Two Weeks)



The odor complaint data, which is tracked by SCAQMD, is one of the primary measures utilized by the SCL LEA in determining the overall impact of the ADC and other mitigation measures implemented by the Sunshine Canyon Landfill. The SCL LEA looks at each and every single complaint (not just the verified ones) in its data mining / analysis. SCAQMD data is provided to the SCL LEA staff and the data is loaded onto a database/spreadsheet that looks at the type of complaint (e.g., trash, landfill gas, combination, other, etc.), the time of day, day of week, etc. Data mining and correlative analysis are conducted as part of the SCL LEA evaluation process.

Odor complaints for the key months in 2017 after the completion of the ADC Cell CC-3B and after the majority of the mitigation measures were implemented, were compared to pre-ADC operations/pre-mitigation measure implementation. The comparison shows a significant decrease of odor complaints. The decrease cannot be totally attributed to the implementation of the ADC or the ICE. It is the result of all of the mitigation measures of which the ADC is one. The ADC is designed to complement other programs in which the primary purpose is to improve the overall collection efficiency of the landfill gas collection system. The ADC improves trash-to-trash contact, and enhances movement of LFG

toward the collection wells, and also allows drainage of leachate to the leachate collection system at the bottom liner.

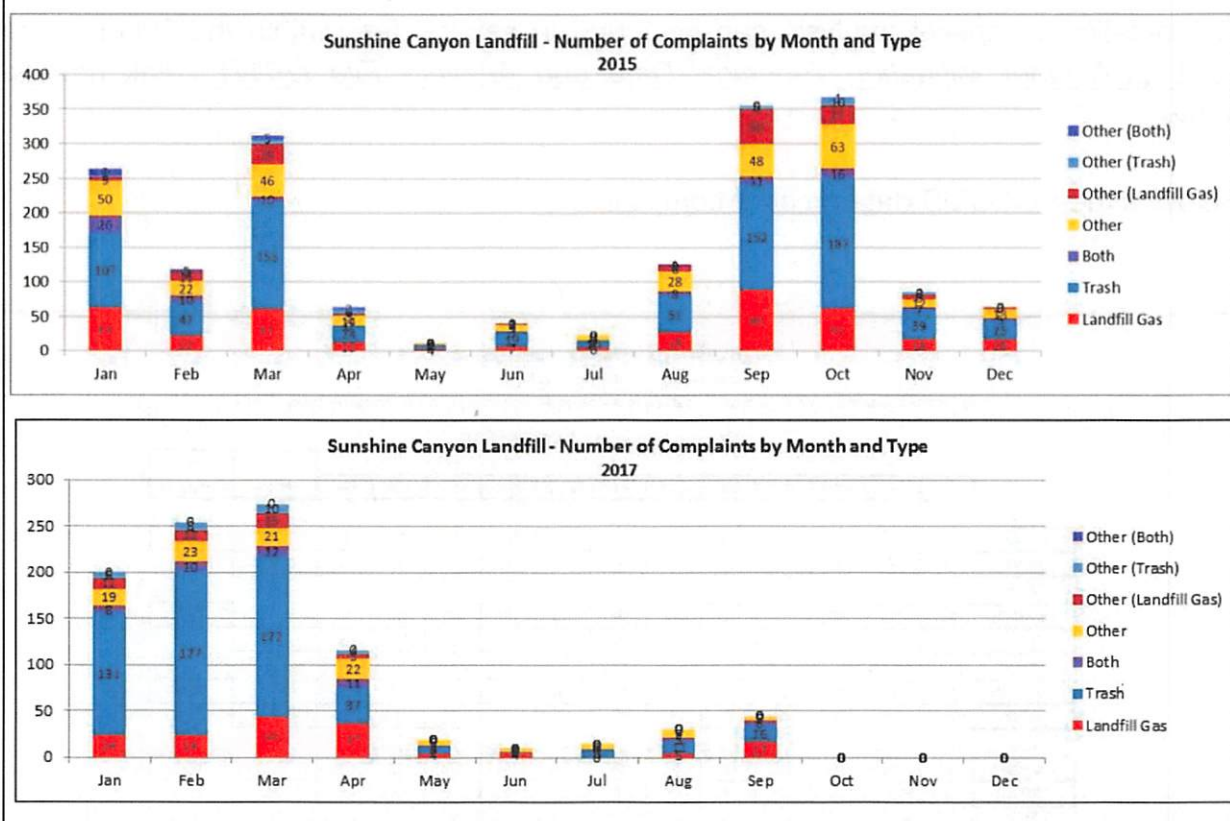
The detailed complaint analysis can be found in several files within the folder named [“SCL LEA Odor Mitigation Technical Data and Analysis File \(2017\)”](#) (link provided above).

Below is the SCAQMD data on odor complaints:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT															
Sunshine Canyon Landfill, Facility ID No. 49111															
Odor Complaints Reported to AQMD Alleging SCL and Notices of Violation (NOV) Summary from 2009 through November 30, 2017															
Public Nuisance: AQMD Rule 402; Calif. H&S 41700															
	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Total NOVs	Total Complaints	
2010															
Complaints	64	94	93	56	21	5	13	33	40	39	76	79		613	
NOVs	1	2	0	1	0	0	0	0	0	0	0	2	6		
2011															
Complaints	138	173	222	99	92	45	36	138	181	191	126	124		1565	
NOVs	2	4	7	2	1	0	0	2	2	3	3	4	30		
2012															
Complaints	183	104	66	129	97	55	113	140	216	171	92	139		1485	
NOVs	5	1	1	2	2	1	2	2	4	3	2	4	29		
2013															
Complaints	82	108	112	112	46	62	65	97	136	176	93	72		1181	
NOVs	0	1	2	2	0	1	0	0	2	3	3	1	15		
2014															
Complaints	32	37	164	122	52	28	83	81	302	223	80	278		1482	
NOVs	0	0	4	5	1	0	2	4	6	5	3	7	37		
2015															
Complaints	260	119	297	60	12	41	23	126	337	370	85	65		1795	
NOVs	5	3	7	2	0	0	0	2	11	7	2	0	39		
2016															
Complaints	100	188	185	181	30	74	52	85	206	193	206	59		1558	
NOVs	2	4	6	5	0	1	1	1	2	4	4	1	31		
2017															
Complaints	200	254	274	116	19	10	14	30	44	27	22			1010	
NOVs	6	7	6	1	0	0	0	0	0	0	0		20		
													Total R402 NOV's Issued to Date		
													Total Complaints *	10,983	
													Total R402 NOV's Issued **	214	
* Includes 313 Complaints from 2009															
** Includes 7 NOV's from 2009															
December 5, 2017															

The SCL LEA conducts extensive analysis on the data mining files to independently evaluate the number of odor complaints and the details associated with each complaint. Below is a figure comparing the number and type of odor complaints during the pre-ADC (2015) and post-ADC implementation (2017) time periods. The SCL LEA will be continuing to update the odor complaint data from SCAQMD and also update the data mining and statistical analysis.

Comparative Complaint Data 2015 vs 2017



Note: October 2017 had 27 complaints, and November 2017 had 22 complaints

As part of the SCL LEA's normal daily duties at Sunshine Canyon Landfill, the onsite LEA inspector would inspect the ADC in the morning prior to the start of operations for compliance with the performance standards for controlling blowing litter, vectors, fires, odor and scavenging. The onsite LEA inspector would conduct a neighborhood survey prior to entering the landfill to determine if they could detect any adverse effects from the use of the ADC at the site. The daily inspection results did not detect any major problems with the ADC. Initially when the pilot project began, there were a couple of occasions when a geosynthetic panel was dislodged due to heavy winds. The landfill operator made adjustments to the Enviro Cover System so that additional ballast was applied each night to the geosynthetic panels. In addition, to ensure that the trash is properly covered each night, the ADC is not used during extreme wind events. A full dirt cover was utilized during these events.

Based on the above analysis and the review of Republic Services final evaluation report, the SCL LEA has made the following determinations:

- (1) The SCL LEA has determined that the geosynthetic plastic panel ADC product meets the performance requirements of Title 27, California Code of Regulations,

Section 20690 for controlling blowing litter, vectors, fires, odor and scavenging and is as effective as the nine inches of compacted soil; and

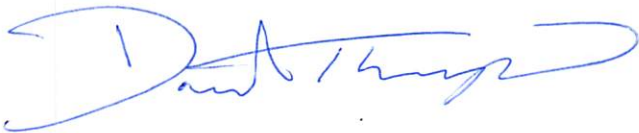
- (2) The SCL LEA has determined that the use of the geosynthetic plastic ADC enhances/improves the overall efficiency of the landfill gas collection system in the measurable control of landfill gas emissions; and
- (3) The SCL LEA has determined that there is sufficient technical documentation and based upon field observations of the spoils from the drilling of the gas collection wells and the improved landfill gas collection rates to concur with SCAQMD's recommendation to the continued practice of partially peeling back the nine inches of compacted daily soil cover when the landfill is not able to use the ADC. This will improve the overall performance of the leachate collection system, the landfill gas collection system and reduce landfill gas and trash related odors.

Therefore, the SCL LEA concurs with Republic Services conclusion that the geosynthetic panel product (Environmental Products, Inc. (EPI), Enviro™Cover, 1.75 mil thickness) can continue to be used as an ADC at Sunshine Canyon Landfill as part of its daily operations. However, in order to make it a permanent practice, Republic Services is required to amend the Joint Technical Document to reflect this activity.

All associated technical data analysis files used in our analysis have been loaded onto the SCL LEA / Sunshine Canyon Landfill Sharefile FTP site and are also accessible via our SCL LEA website: www.scllea.org

If you have any questions, please contact me at 213-252-3932 or Ms. Dee Lugo at 626-430-5540.

Sincerely,

A handwritten signature in blue ink, appearing to read 'David Thompson', with a stylized flourish at the end.

David Thompson, REHS
SCL LEA Program Manager

Cc: Maurice Pantoja, SCLLEA
Dee Lugo, SCLLEA
Jose Gutierrez, SCLLEA
Wayde Hunter, SCL CAC

Nicholas Sanchez, SCAQMD
Martins Aiyetiwa, DPW
Rob Sherman, Republic Services

ATTACHMENT 3

**JOINT TECHNICAL DOCUMENT
TEXT IN “TRACK CHANGES” MODE**

JOINT TECHNICAL DOCUMENT FOR THE SUNSHINE CANYON LANDFILL

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Appendix AA	Fire Response Plan
Appendix AB	Odorous Load Management Program
Appendix AC	City of Los Angeles Planning Approval Letter
Appendix AD	Draft Conceptual Landscape Plan
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A.1 INTRODUCTION

The following is the Joint Technical Document which provides the latest design and operations information for the Sunshine Canyon Landfill (SCL) located in Los Angeles County, California, prepared in accordance with the California Code of Regulations, Title 27 (27 CCR).

Under current regulations, the California Department of Resource Recycling and Recovery (CalRecycle) (formerly the California Integrated Waste Management Board), the California Regional Water Quality Control Boards (RWQCB), local Air Quality Management Districts and local enforcement agencies (LEA) for CalRecycle all perform inspections of waste management facilities to ensure that they are being operated in compliance with applicable Federal, State and local regulations.

Both CalRecycle and the RWQCB require an operator of a waste management facility to obtain an operating permit. Chapter 4, of 27 CCR requires an operator of a non-hazardous landfill to obtain an operating permit known as a Solid Waste Facility Permit (SWFP). The SWFP is concurred on by CalRecycle and then issued by an LEA. The RWQCB, through regulations under 27 CCR, Chapter 4, Article 4, requires that an operator of a waste management facility that discharges wastes to land obtain an operating permit known as Waste Discharge Requirements (WDR). The primary support document that is required for a landfill to obtain both a SWFP and WDR is a Joint Technical Document (JTD).

In addition to the JTD, prior to issuance of a new SWFP (or whenever there will be a significant change in design and/or disposal operations), the owner must provide CalRecycle with a Preliminary Closure and Post-Closure Maintenance Plan (PCPCMP). The objectives of the PCPCMP are to provide a reasonable estimate of the maximum expected cost to close and maintain the landfill during a 30-year post-closure period. A PCPCMP element has been included as part of this JTD.

A.1.1 PURPOSE

The purpose of this JTD is to present a comprehensive description of SCL including, but not limited to: existing and proposed design and operational features and procedures, geology, hydrogeology, climatology, and the proposed

closure design and post-closure maintenance activities. The closure and post-closure design and maintenance procedures will provide the basis for developing required cost estimates and establish the level of funding to be secured under an approved financial mechanism.

In November 2007, the original JTD was prepared in support of consolidating the then separately permitted SCL City and County refuse facilities under one SWFP and one WDR. The proposed project included the following design and operational changes:

- A maximum build-out elevation of up to 2,004 feet above mean sea level (MSL) (including final cover).
- An extension of the site life from the current estimated closure dates for the SCL City (2010) and SCL County (2013) to approximately 2037 which is consistent with the replacement CUP.
- The area utilized for landfilling from the perspective of the current solid waste facility permits increased from 246 acres (84 in SCL City and 162 in SCL County) to 375 acres (195 in SCL City and 180 in SCL County).
- A unified phasing plan was prepared to optimize soil management while complying with phasing requirements of the City Zone Change.
- A new realigned entrance road, a new scale facility and other ancillary facilities to provide state-of-the-art services for landfill users throughout the SCL active site life.
- Consolidation of the two existing working faces into one resulting in more efficient use of equipment, fuel, and overall lowering of associated emissions.
- Combining of the current daily inflow of waste from the two landfills (5,500 maximum tons per day (tpd) and 30,000 tons per week (tpw) for the SCL City and 6,600 tpd and 36,000 tpw for the SCL County) into one daily maximum of 12,100 tpd and 66,000 tpw.
- Combining of the current weekly inflow of inert/beneficial use material from the two landfills (3,000 tons per week (tpw) for the SCL City and 3,600 tpw for the SCL County) into a weekly maximum of 6,600 tons.

The JTD was revised in February and May of 2008 to address agency comments related on the changes described above. Ultimately, the JTD revision was approved and the SCL now operates under one SWFP (No. 19-AA-2000) and one WDR (Order No. R4-2008-0088).

In September 2011, Amendment No. 1 to the revised May 2008 JTD was prepared to update the emergency contact list reflecting changes in site personnel, change to the location of the greenwaste processing area to the northern portion of the landfill, update the landfill's site map to reflect the current location of various ancillary facilities (i.e., scalehouse, leachate treatment area, and gas condensate treatment area), and update the phasing limits of the landfill development to be consistent with the previously approved cell development. Amendment No. 1 was deemed consistent with the SWFP and state minimum standards.

In December 2012, Amendment No. 2 to the revised May 2008 JTD was prepared to provide the LEA and RWQCB with updated information to support the operation of the proposed gas turbine electrical generation (landfill gas-to-energy [LFGTE]) facility. This facility at SCL is being developed and will be operated by Sunshine Gas Producers, L.L.C. (SGP). For additional information regarding the proposed facility, refer to Section A.2.1.

~~The information presented in this~~In May 2013 and September 2014, Amendment No. 3 of the JTD ~~is to~~was prepared to update the document for the five-year permit review. The purpose of the five-year permit review ~~is~~was primarily to document any changes in either the design and/or operation of the subject facility since the last permit issuance and/or since the last five-year permit review. The permit review ~~should~~especially noted any significant changes that have occurred or proposed changes which would invoke a modification or revision of the current permit and possibly invoke additional environmental assessment. ~~The existing SWFP was issued on July 7, 2008.~~

As part of the five-year permit review, the closure and post-closure cost estimates ~~have been~~were revised in compliance with the recently revised (at the time of the amendment) regulations found in 27 CCR, Sections 21780 through 21865. In particular, these regulations require the use of third-party costs and Caltrans rates,

and the inclusion of supporting documentation for all referenced costs (i.e., 27 CCR, Sections 21815 and 21840).

In addition to the five-year permit review, 27 CCR, Section 22101(b) requires that on or before the date of the first permit review, a non-water release corrective action study and cost estimate be completed and submitted with the permit review. 27 CCR, Division 2, Subdivision 1, Subchapter 5, Sections 22100 – 22103 require that owners and operators of all disposal facilities develop cost estimates and a plan for initiating and completing known or reasonably foreseeable water release and non-water release corrective actions. The non-water release corrective action plan (CAP) for SCL includes the evaluation and analyses of all the applicable reasonably foreseeable causal events as well as the long-term performance of the final cover system and the adequacy of containment structure and environmental monitoring and/or control systems. Additionally, the non-water release CAP includes cost estimates associated with each relevant causal event along with the findings from the evaluations/analyses. ~~This~~The amended JTD included~~s~~ the CAP study and cost estimate.

The information presented in this Amendment No. 4 to the JTD is to update daily cover operations to include the use of a non-reusable geosynthetic panel product as alternative daily cover as approved by the local enforcement agency (SCL LEA). Also, the daily cover description has been revised to clarify that a minimum of six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction performance and conserve on-site soil usage the 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day.

A.1.2 REPORT ORGANIZATION

The JTD is divided into six major components, Parts A, B, C, D, E and F. Part A provides general information on the JTD's format and content, the proposed changes in landfill development and operations, including the proposed closure and post-closure maintenance plan element and document references. Part B includes disposal site facility and operational information. Part C includes information on the existing and proposed disposal site design. Part D includes

information on the site characteristics. Part E describes the proposed closure design and post-closure maintenance activities. Finally, Part F provides the cost estimates associated with the proposed closure design and post-closure maintenance activities described in Part E.

The JTD is separated into three volumes with Parts A through F, followed by the tables, figures and full-sized drawings included in Volume I and the appendices referenced throughout the JTD included in Volumes II and III.

Regulatory Requirements Cross-Reference Table

This JTD includes the required cross-reference index to enable the LEA, RWQCB, CalRecycle and other readers to easily find the appropriate section in Parts A through F which corresponds to specific regulatory requirements set forth in 27 CCR, Chapters 3 and 4, and the Code of Federal Regulations, Title 40 (40 CFR), Part 258 (also known as Subtitle D). This information is included in Tables 1 (State Water Resources Control Board [SWRCB] JTD Index) and 2 (JTD Index - CalRecycle Requirements).

A.2 PROPOSED LANDFILL DEVELOPMENT DESCRIPTION

A.2.1 PROPOSED LANDFILL DESIGN AND DEVELOPMENT

A.2.1.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The County of Los Angeles Department of Regional Planning and the Board of Supervisors (Lead Agency) certified the adequacy of the Final EIR (SCH 89071210: 1993), and that it had reviewed and considered the Final EIR in reaching its decision on approving landfill operations in portions of Sunshine Canyon located in Los Angeles County. The CEQA process culminated in the issuance of the 1993 Conditional Use Permit (CUP). Board of Supervisors approval and the supporting Final EIR envisioned that disposal operations would eventually cross back into City portion of the canyon, and that the City and County operations would be combined into a single landfill.

The City of Los Angeles Planning Commission and City Council (Lead Agency) certified the adequacy of the Final SEIR (SCH 92041053: 1999), and certified that it has reviewed and considered the Final SEIR in reaching its decision on approving City Landfill Unit 2. Certification was provided by Los Angeles City Council Resolution. Subsequent to the Los Angeles City Council Resolution, a Notice of Determination (NOD) was filed with the Los Angeles County Clerk. The SEIR, and the County EIR which was incorporated by reference, reviewed all environmental impacts associated with the development of a consolidated SCL.

The County of Los Angeles Department of Regional Planning (Lead Agency) prepared an Addendum (October 2004) to the FEIR and SEIR, and certified that it had reviewed and considered the FEIR, SEIR, and Addendum in reaching its decision on approving the replacement CUP issued in February 2007 for the City and County Landfill Consolidation. The Addendum to the County Final EIR and City SEIR was prepared to describe the CUP revisions, relevant background information, and the basis for the conclusion that there has been no substantial change to the project or to the environmental impacts analyzed.

Previous CEQA documents prepared for SCL, as described above, included a component to control LFG through flaring. The potential for a LFGTE project was identified in the 1999 Final SEIR; however, because the proposed LFGTE

project would change the method of handling and controlling LFG previously analyzed, the 2012 Final SEIR (under State Clearinghouse No. 92041053) is considered to be a modification to the previously approved CEQA documents. The Final SEIR for the LFGTE project was certified on April 27, 2012 and a copy of the NOD was filed with the Los Angeles County Clerk. CEQA for the LFGTE facility is further discussed in Section B.8.2.9.

A.2.1.2 PROPOSED DESIGN FEATURES AND INFORMATION UPDATES

- ~~————No design changes are proposed at this time.~~

~~The JTD has been updated to include the following landfill design components consistent with existing CEQA documentation and local land use entitlements for SCL:~~

~~Placement of Flare 10 in the area of Flare 9 and the future LFGTE facility. More information on the placement of this flare is included in Section B.7.2.2.~~

~~The limits of the development phases were revised as part of JTD Amendment No. 1 adjacent to Cell CC-II in order to manage the existing ancient landslide in the Phase CC-II project area. The current modification is simply to reflect the as-built phases CC-II and CC-III A Part 1. Phasing is discussed in Section C.3.9.~~

~~Leachate treatment facility has been moved from the County portion of the SCL as fill activities have occurred in that area. The leachate treatment facility is now located near the facility entrance on the City portion of SCL as shown on Figure 8.~~

~~The JTD has also been revised to update the following:~~

~~Environmental systems update;
Update existing and proposed facilities plans;
Updated equipment and personnel list;
Updated Greenwaste Operations Plan;
Updated closure and post closure maintenance cost estimates;
Addition of the Non-Water Quality Corrective Action Plan and Cost Estimate;
Update of waste flow projections, remaining facility capacity and site life;
Updated odor mitigation practices; and
Updated response actions to potential subsurface oxidation events.~~

A.2.2 PROPOSED LANDFILL OPERATIONS

~~No operational changes are proposed at this time.~~ This JTD has been updated to include the following operational changes:

- Update Supervisory Structure personnel in Section B.4.7.3.
- Daily cover operations to include the use of a non-reusable geosynthetic panel product as an alternative daily cover (ADC) as approved by the local enforcement agency (SCL LEA) included in Section B.5.2.1.
- Daily cover description has been revised to clarify that at a minimum six inches of daily cover soil are used whenever ADC is not used and that in an effort to enhance landfill gas extraction and performance and conserve on-site soil usage the 6-inch cover is peeled back to approximately one-inch prior to placement of the day's waste. The recovered soil is stockpiled for use as daily cover at the end of the day. This information has been included in Section B.5.2.

A.2.3 PRELIMINARY CLOSURE AND POST-CLOSURE MAINTENANCE PLAN (PCPMP)

This JTD integrates a PCPMP element prepared in accordance with current regulations and included as Parts E and F of this document.

A separate Final Closure Plan will be prepared and submitted to the appropriate regulatory agencies (i.e., LEA, CalRecycle, and RWQCB) two years prior to the anticipated closure date for any portion thereof or the entire landfill. A separate discretionary action and CEQA review and clearance for closure activities will be required prior to approval of the Final Closure Plan.

- odorous load identification and reporting of such loads to supervisor for appropriate handling;
- site monitoring systems and inspections; and
- reporting of suspicious loads to supervisor.

A record of personnel training will be placed in the landfill operating record.

B.4.7.3 SUPERVISORY STRUCTURE (27 CCR, SECTION 21600(b)(5)(I))

The General Manager has general oversight of all staff at the site, including but not limited to the following staff:

- Division Manager
- Environmental Manager
- Controller
- Operations Supervisors
- Maintenance Supervisor
- Scale House Supervisors

Below is a list of managers and supervisors. Please note that personnel assignments are subject to change.

Job Title	Name
General Manager	Rob Sherman Chris Coyle
Division Manager	Bill Carr Larry Bressman
Environmental Managers	Achaya Kelapanda Josh Mills Patti Costa Tuong-Phu Ngo, Valorie Moore
Operations Supervisors	Fred Jones Eulogie Garcia Tom England Lane Fife
Scale House Supervisor	Larry Bressman Patricia Trejo

B.4.7.4 EMERGENCY CONTACT LIST

In accordance with 27 CCR, Section 20615, the LEA, local health agency and fire authority have been notified in writing of the names of the site personnel for SCL to contact in the event of an emergency, along with the emergency procedures, are included in Appendix F. This list is also posted in the site office and operations' trailer.

B.5 COVER **(27 CCR, SECTION 21600(b)(6)(A))**

B.5.1 COVER MATERIALS (27 CCR, SECTION 21600(b)(6)(A))

Excavation/soil stockpiling operations for daily cover use have been and will continue to be conducted concurrent with refuse disposal throughout the development of the landfill. All near term soil requirements for daily and intermediate cover uses are anticipated to be met with on-site soils generated from excavation and stockpiling activities. Soils are excavated from future phases of development and are placed in designated stockpile areas.

Excavation and stockpiling operations are conducted so as not to interfere with disposal and other ancillary operations. Proper drainage control is maintained and the stockpile areas are graded to promote lateral run-off of precipitation into drainage control facilities. Erosion control for the stockpiles is provided by either silt fences, hay bales, earthen berms or sand bags. In addition, SCL has a Storm Water Pollution Prevention Plan (SWPPP) prepared to comply with the National Pollutant Discharge Elimination System (NPDES) requirements included in the Statewide General Permit for Industrial Activities. For additional information regarding excavation activities, see Section C.3.2.

B.5.2 COVER FREQUENCY (27 CCR, SECTION 21600(b)(6)(B))

The purpose of daily cover soil or an equivalent alternative daily cover (ADC), as approved by the LEA, is to provide a suitable barrier to the emergence of vectors, prevent windblown trash and debris, minimize the escape of odors, prevent excess infiltration of surface water and hinder the progress of potential combustion within the landfill. Daily cover in the form of soil material or an ADC is placed over all exposed refuse at the end of each working day. Except in areas where ADC is used, the working face is covered with a minimum of six (6) inches of compacted soil after the facility is closed to the public. The soil is placed and compacted with heavy equipment and sloped to minimize infiltration of precipitation and promote surface water runoff. A soil sealant is also applied, in conformance with the dust abatement program developed in conformance with

SCAQMD Rule 403. In an effort to enhance landfill gas extraction performance and conserve on-site soils, the minimum 6-inch daily soil cover is peeled back to approximately one-inch prior to placement of the next day's waste. The recovered daily cover soil is stockpiled near the working face for placement at the end of the day.

Only soil will be used as daily cover on any operating day before a period when the landfill will be closed for more than 24 hours, unless allowed otherwise for an approved ADC. This will generally occur on Saturdays and the day before a scheduled holiday. ~~A soil sealant will be applied to areas that have not previously received soil sealant at the same time.~~

B.5.2.1 ALTERNATIVE DAILY COVERS (27 CCR, SECTION 21600(b)(6)(B))

Alternative daily covers (ADC) will be used to conserve air space and native soils. In addition, the use of ADC will provide the operator an alternate method of covering the working face during inclement weather. SCL will utilize geosynthetic panels, processed green material, and/or soil in any combination on any particular day as permitted by the current SWFP for SCL (see Appendix D). Other ADC materials specifically approved in 27 CCR may also be utilized as authorized by the appropriate regulatory agencies. ADC materials not specifically approved in 27 CCR will be subject to site specific demonstration projects that are approved by the LEA to establish suitability as daily covers. Prior to the use of other ADC materials, the facility will comply with 27 CCR, Section 20690(b) requirements.

In a letter dated December 20, 2017 (see Appendix AE), the SCL LEA approved the use of Enviro Cover, a non-reusable geosynthetic panel product, as ADC based upon a two-year pilot project. This material is approved as an ADC by CalRecycle (27 CCR, Chapter 3, Subchapter 4, Section 20690(b)(1). A discussion of the use of this ADC is provided below after reusable tarps and processed green material.

SCL will use reusable geosynthetic fabric (tarps), or non-reusable geosynthetic panel products ~~(tarps)~~ and processed green material as ADC material.

Reusable Tarps and Processed Green Material

The [tarpsreusable tarps](#) are manufactured by several companies and are available in several sizes with 75 feet by 100 feet panel the most predominant size in use. Other sizes will be used depending upon the area to be covered and their ease in deployment. The [tarpsreusable tarps](#) are made of polyethylene or polypropylene and typically about 70 mils in thickness. The [tarpsreusable tarps](#) are ultraviolet stabilized, chemical resistant, nylon reinforced, and maintain a low permeability to provide maximum run-off. The [tarpsreusable tarps](#) will be secured by sandbags, tires or soil and deployed either manually or with the use of heavy equipment.

[TarpsReusable tarps](#) will be removed from the working face at the beginning of the business day and inspected for rips or tears and repaired as necessary. Generally, rips or tears twelve inches or larger will be repaired prior to re-deployment. [TarpsReusable tarps](#) will not be used if the landfill will be closed the following day. Native soils will be used exclusively as daily cover material on those days.

Processed green material used as ADC will be spread over the compacted refuse surface at the conclusion of the workday. The area of refuse receiving processed green material ADC will be completely covered in a compacted layer with a minimum of 6 inches and no more than an average of 12 inches. Processed green material ADC utilized on the prior day will either be covered by additional refuse or receive soil daily cover by the conclusion of work on the following day. Processed green material ADC will not be used if the landfill will be closed the following day. Native soils will be used exclusively as daily cover material on those days.

Processed green material utilized for ADC will originate from either off site processor(s) or from an on site processing operation that may be established in the future. Regardless of the source, the processed green material ADC will be clean and free of refuse contamination and be processed (ground, shredded, screened, or by other means) to provide a compacted material free of open voids in the ADC cover.

Geosynthetic [tarpsreusable tarps](#) and processed green materials have been shown to fulfill the regulatory prescriptive standards for daily cover. The geosynthetic [tarpsreusable tarps](#) and processed green material ADC have been

determined by the [CalRecycle \(formerly CIWMB\)](#) to provide equivalent protections as soil cover while reducing the need for on-site soil usage. Vectors usually associated with landfill operations included flies and rodents. Previous studies, including the ADC geosynthetic [tarpsreusable tarps](#) site specific demonstration project, indicate that rodents are not common to the facility and should not be considered a problem. ADCs will help minimize dust generated on site by reducing the number of truck trips per day for daily soil cover. Watering of the approaches to the working face and roadways will continue.

The use of soil during the rainy season is cumbersome and at times, difficult to apply. Using ADC [tarpsreusable tarps](#), and/or processed green material will minimize this problem and improve operations near the working face by providing for a safer working environment. Additionally, the use of ADC in conjunction with other winterization activities will minimize the amount of soil “tracked” onto the main haul road.

Assessment of the ADC’s performance will occur throughout its use on the landfill. Extensive use of geosynthetic [tarpsreusable tarps](#) and processed green material as ADC throughout the State of California have demonstrated that use of such does not impact water quality.

The following Table 5 summarizes the properties of the ADC material with the corresponding properties of soil that have been used at the site for daily cover:

TABLE 5
SUNSHINE CANYON LANDFILL
COMPARISON OF GEOSYNTHETIC [TARPSREUSABLE TARPS](#) AND
PROCESSED GREEN MATERIAL TO DAILY SOIL COVER

Property	Daily Soil Cover	Synthetic TarpsReusable tarps	Processed Green Material
Hazardous or pathogenic nature of the cover	None	None	None
Resistance to heat and fire after application and compaction	On site soils do not burn or propagate flame and will have a tendency to smother fires	The tarpsreusable tarps used will have a flame retardant coating applied	Naturally occurring moisture in the green material and the 1-day limitation in use will max. Resistance to heat and fire.

Field permeability after application and compaction	Soil analysis indicate a permeability of 1.0×10^{-5} at 90% compaction	Most tarpsreusable tarps are water repellent; runoff will be controlled and managed accordingly	Like soil, processed green material will absorb water until the surface is saturated to cause lateral run-off.
Compaction capability of the cover	Soils are conducive to compaction	TarpsReusable tarps will not be subject to compaction	Processed green material is conducive to compaction as noted in the applicable regulations.
The ability of the cover to control the emergence, attraction, or harborage of vectors	Vectors can emerge from the waste; however, compacting the cover significantly reduces emergence and breeding	Control similar to soil; waste types and operation dictate severity of emergence and attraction	Similar performance as soil.

The use of flame retardant [tarpsreusable tarps](#) and the moisture retained in processed green material reduces the potential for a fire occurring or spreading. If a fire were to occur, the following procedures would be followed:

- Isolate the burning materials from the other wastes;
- Smother the burning waste with soil;
- Allow the waste pile to cool for 24 hours; inspect for smoldering;
- Incorporate into the working face if safe; and
- Report all incidents.

Current and prior experiences with fires at the site have not indicated a problem. Soil will be used as daily cover on Saturdays or more frequently as required to maintain a safe and neat working environment. On those days when soil will be used as cover, operations staff will compact the soil.

In general, the waste types covered with the geosynthetic [tarpsreusable tarps](#) and/or processed green material will be municipal solid wastes, commercial and industrial waste. If a tarp needs to be replaced or is out of service for repair, soil or green waste will be used until repaired or replaced.

Processed Green Material Calculation

As noted previously, the working face area will be approximately 120,000 square

feet. An area of this size, if completely covered with an average depth of 12 inches of processed (95 percent less than 6 inches) green material ADC would consume approximately 1,550 tons per day of processed green material ADC. This quantity is calculated as follows:

Active Face Area to be Covered	=	120,000 sq. ft.
Depth of ADC Material	=	12 in. (1 ft.)
Compacted ADC Material Density	=	700 lbs./cu. yd. (typical)

Quantity of ADC Material = (120,000 sq.ft.) x (1 ft. depth) x 700 lbs./cu.yd.)
(27 cu.ft./cu.yd.) x (2000 lbs./ton)

=1,555 tons (round up approx. 1,560 tons)

It is unlikely that the operations will have access to this quantity of processed green material on a regular basis, therefore, the operation will also make use of geosynthetic tarp ADC and/or soil. Furthermore, SCL is limited by its local land use entitlements to an average tonnage of 6,600 tons per week (1,100 tpd average on a 6-day week) of exempt waste, such as green waste used for ADC.

During periods of inclement weather (e.g. high winds), when use of ADC ~~tarps~~[reusable tarps](#) is not practical, its use may be suspended and soil or green waste used as daily cover.

Odor will be evaluated (qualitatively) if the site receives complaints that can be attributed to the use of the ADC ~~tarps~~[reusable tarps](#) or processed green material. Fires will be reported to the LEA within 24 hours of occurrence. SCL will continue its routine litter collection and abatement program. The working face will be generally maintained at the dimensions set forth above but may be larger or smaller as waste inflow rates increase or decrease respectively.

Non-Reusable Geosynthetic Panel Product

The geosynthetic panel product is classified as a non-reusable geosynthetic alternative daily cover in ASTM D 6523-00 (2009). The geosynthetic panel product will be applied at the end of each operating day and will be left in place at the start of the following day's operations; no removal of the material will be conducted. The geosynthetic panel product will be placed over the entire deck

of the working face. It will not be placed on any outside slopes or slopes that will not be part of the active working face for longer than 180 days. Soil will be used as cover material on the outside and temporary slopes. The material will be used on one lift per day. The maximum size of the working face deck area where the geosynthetic panel product will be applied will be two to three acres. The geosynthetic panel product will typically be covered the next operating day with additional waste and may be left in place for up to 48 hours to cover weekends.

The geosynthetic panel material will be deployed using the Enviro™ Cover System (ECS) Deployer Model 800 (Deployer). The placement of the geosynthetic panel product material will proceed as follows:

- The Deployer is loaded with a roll of geosynthetic panel material and on-site ballast material (soil or appropriate beneficial reuse material);
- Verify that the outside edge is positioned a minimum of 5 feet from the outside of the waste material;
- During the application process, the geosynthetic panel material is unrolled from the Deployer while ballast material is simultaneously discharged at a controlled rate to securely anchor the geosynthetic panel material onto the working face;
- On successive adjacent runs to deploy the geosynthetic panel material, an overlap is put down, thus forming a compression-type seal creating a continuous closure and impermeable barrier between the waste and the environment.

On-site soil or beneficial reuse material will be used for the ballast material. The ballast material is deployed by a hydraulic chain floor. The ballast volumes released can be adjusted and controlled by the Deployer operator. The typical volume of ballast is approximately 0.75 m³ of ballast for every 150 m² of placed geosynthetic panel material. The Operations Supervisor will ensure an adequate stockpile of ballast material is available at the working face prior to placement of the geosynthetic panel material.

Since the geosynthetic panel material is a degradable product with a shelf-life and storage UV restrictions, rolls of the material are enclosed in UV protective packaging equipped with lifting slings for easy and safe handling. The outer

polyethylene sleeve will not be removed until a roll is ready to be used. If a partial roll is left over, this roll will be the first one used the following day.

At the end of the working day, an Operations Supervisor will inspect the geosynthetic panel product to ensure there are no tears or punctures. This will be one of the last observations after the closing operations are conducted. If there are any tears or punctures in the geosynthetic panel product, a new sheet of material will be placed along with ballast material to ensure any and all tears or punctures are covered. Each morning the area covered by the geosynthetic panel material will be inspected prior to the start of the receipt of trash to ensure the material remained in place throughout the night. If any significant areas were exposed (e.g., due to windy conditions that began after the cover was laid down) adjustments to deployment will be made accordingly to prevent future occurrences.

During high wind conditions, operational adjustments will be made to compensate for the weather conditions. Typically, this will include the following:

- Placement of additional ballast material, if needed.
- Providing for additional overlap of the panels, if needed.

During extreme wind events, when it is too windy to effectively deploy the geosynthetic panel material, the working face area will be covered with a minimum 6 inches of soil cover.

B.5.2.2 BENEFICIAL REUSE WASTE TYPES

Processed asphalt and concrete rubble will be used in road base and for construction of wet weather operation pads and access roads. This beneficial reuse application will be used to conserve native resources and to reduce the importation of like construction material on-site, thus reducing truck traffic. Other processed asphalt and concrete rubble material not specifically approved in the regulations will be subject to site specific demonstration projects that are approved by the LEA to establish suitability as beneficial reuse.

Processed asphalt and concrete rubble will be used for roads and wet weather operations pads. Material will be spread throughout the pre-designated area at

an average depth of approximately 24 inches to provide stable, leveled, and compacted working surface for vehicles to utilize. Material will be spread and handled utilizing heavy equipment and manually as necessary. These working surfaces will be especially necessary during wet conditions to avoid trucks from getting stuck in muddy conditions. The following analysis can be used as a guideline but actual amounts will be dependant on specific weather conditions during the wet season.

Annually the site develop/constructs approximately 3 wet weather pads and wet weather pad access roads. The approximate dimensions are 350 ft. x 350ft. totaling 122,500 sq.ft. In addition, the operation develops approximately 1,000 linear feet, and redevelops an additional 1,000 linear feet, of necessary access/haul roads at an approximate width of 50 ft., totaling 100,000 sq.ft. The annual combined area of wet weather pads and access roads is approximately 467,500 sq.ft.

Construction of wet weather pads and roads would consume approximately 56,100 tons of processed asphalt and concrete rubble material. This quantity is calculated as follows:

Wet weather pad	=	367,500 sq.ft
Access/haul roads	=	100,000 sq.ft.
Compacted Density	=	3,240 lbs./cu. yd. (Ref: Vulcan Materials, Inc.)
Quantity of Material	=	$\frac{(467,500 \text{ sq.ft.}) \times (2 \text{ ft. depth}) \times (3240 \text{ lbs./cu.yd.})}{(27 \text{ cu.ft./cu.yd.}) \times (2000 \text{ lbs./ton})}$
	=	56,100 tons

The following lists the total tonnage of processed asphalt and concrete rubble material received and utilized at SCL for beneficial reuse in recent years.

<u>Years</u>	<u>Tonnage Received</u>
2011	82,562
2012	104,578
2013	82,323

In general, operations has had ample sources of processed asphalt and concrete rubble material. Materials of this type are generated in the course of road and

parking lot construction/demolition and are received intermittently throughout the year in quantities of up to several thousand tons per day. Material received during periods when wet weather pads or roads are under construction is used as it is received; otherwise it is placed in a stockpile for storage until it is needed. These materials are used solely for the purposes described and are not discarded or landfilled. In the event there are shortages of processed asphalt and concrete rubble material, operations may purchase them from vendors as needed.

B.5.3 INTERMEDIATE COVER PLACEMENT (27 CCR, SECTION 21600(b)(6)(C))

Intermediate cover is defined in 27 CCR, Section 20164, as cover material on areas where additional cells are not to be constructed for 180 days or more to control vectors, fires, odors, blowing litter, scavenging and drainage. In accordance with 27 CCR, Section 20700, a minimum 12-inch thick layer of suitable cover material or equivalent (as approved by the LEA) is placed over the top, side slopes and working face of an advancing lift, refuse cell or portions of the disposal area where no additional refuse is to be deposited within 180 days.

In accordance with Los Angeles County Conditional Use Permit (CUP) Conditions, BFI will establish a temporary vegetation cover on areas of the landfill that have received intermediate cover and are to remain inactive for a period longer than 180 days. Temporary vegetative cover is established according to recommendations from qualified biologists who have evaluated soil conditions at the SCL and specified appropriate planting mixes, soil amendments and fertilizers.

B.5.4 ALTERNATIVE INTERMEDIATE COVER

No AICs are proposed for SCL. In the event that an AIC is proposed, SCL will comply with the requirements of 27 CCR, Section 20700, and would obtain approval from the appropriate regulatory agencies.

B.5.5 FINAL COVER (27 CCR, SECTION 21090(a)(2))

The purposes of a final cover are to minimize surface water intrusion, accommodate settlement and subsidence, isolate wastes from the surface, and reduce the potential for odors and LFG emissions. The cover also provides a base for vegetation, which will reduce drainage velocities and minimize erosion and abrasion of the cover. The State minimum standard prescriptive design for a

landfill requires a single low-permeability soil layer cover or a cover which meets the permeability of the bottom liner system.

Several factors were taken into consideration in evaluating the cover design for SCL to ensure adequate performance of the final cover. These factors included regulatory requirements, the geometry of the landfill, local climatic conditions, potential landfill settlement, erosion protection, vegetative growth, the waste liner system design and end use at closure. Section E.1.3 of Part E includes information regarding the proposed final cover design at SCL.

concurrence of the LEA, the facility manager will direct the area to be buried immediately and log the incident in the Log of Special Occurrences.

Los Angeles County Coroner (323) 343-0755

B.6.4.2 INCLEMENT WEATHER OPERATIONS

Specific operational procedures have been developed and implemented to minimize potential adverse affects of inclement weather on day-to-day operations at SCL. These procedures are described below for summer (i.e., dry and/or windy) and winter (i.e., rainy) conditions.

Santa Ana Conditions/High Winds

When Santa Ana conditions/high winds exist, the following measures are used at SCL to mitigate fugitive dust and litter as necessary:

- more frequent watering of access roads, soil excavation areas, and top deck areas will be implemented by having the water truck operate constantly during operations and potentially renting an additional water truck if needed;
- use of fabric tarp ADCs will be avoided and existing ADC areas will be covered with ~~at least 9a~~ a minimum of 6 inches of daily cover soil;
- decrease the size of the working face;
- install additional litter fences downwind of the active landfilling area; and
- designate additional site personnel full-time to litter control.

Details of the dust control program are contained in Section 7.7.1.2. The litter control program is detailed in Section 7.7.1.3.

Wet Weather Operations

Prior to the onset of wet weather each winter, one or more wet weather pads or operating areas will be prepared. The location of the wet weather pad will be determined on an annual basis, using the following criteria:

ATTACHMENT 4

CEQA MITIGATION MONITORING IMPLEMENTATION SCHEDULE

A Mitigation Monitoring and Reporting Summary (MMRS) was prepared as a part of the CEQA process.

State Clearinghouse Numbers 89071210, 92041053, 1989071210 and 1992041053

MITIGATION MONITORING AND REPORTING SUMMARY

Los Angeles County

Conditional Use Permit No. 00-194-(5)

Oak Tree Permit No. 86-312-(5)

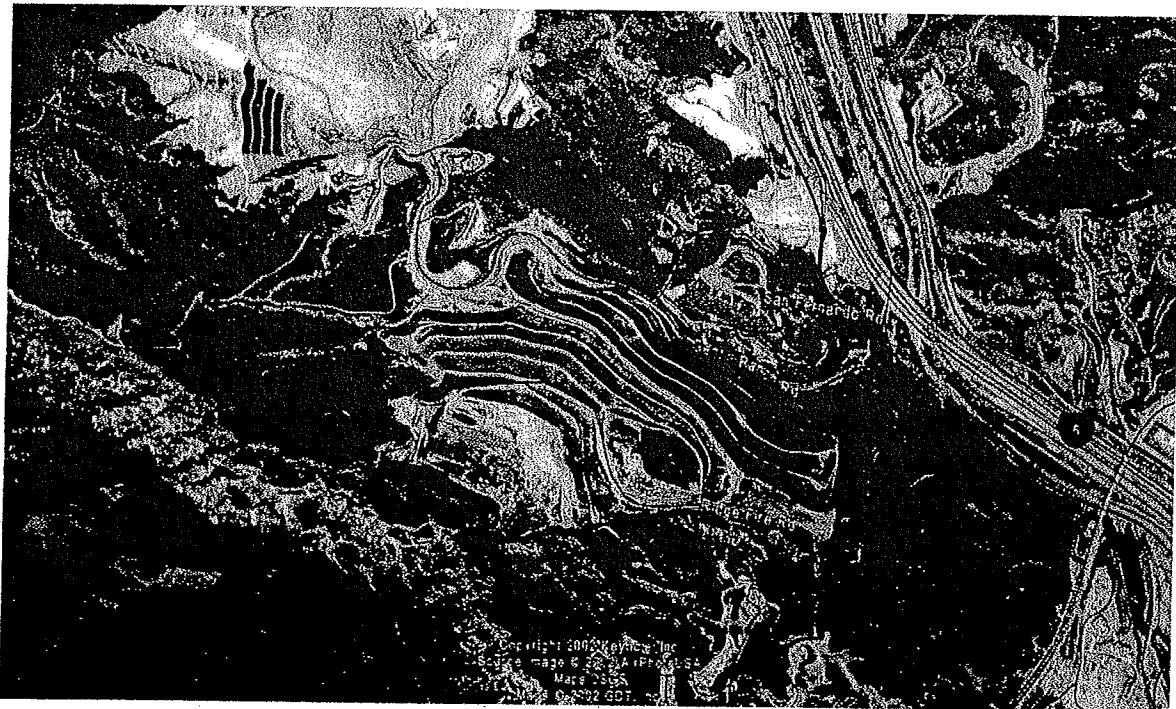
**Los Angeles County
Department of Regional Planning
320 West Temple Street
Los Angeles, CA 90012**

Los Angeles County

Department of Regional Planning

320 West Temple Street

Los Angeles, CA 90012



SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.0	GEOLOGY				
1.01	Survey monuments will be installed around the perimeter of the approved fill area, as depicted on Exhibit "A-1." Survey points will be located where they will not be subject to disturbance by landfill development. The exact spacing, location, and characteristics of the survey monuments will be submitted to and approved by the Department of Public Works.	Inspection and approval by Dept. of Public Works after installation. An approved "as installed" plan shall be provided to the Local Enforcement Agency (LEA). Landfill elevations shall be surveyed by a licensed surveyor or registered civil engineer, and submitted to the Dept. of Public Works for approval not less than 60 nor more than 90 days before the due date for the Biennial Report to the Regional Planning Commission.	--Dept. of Public Works --LEA	Before commencing development of the landfill and periodically throughout fill operations.	Section 5 of Findings IMP-Part I
1.02	Final designs for major engineered structures will be based on the results of the detailed stability analyses of potential seismic events. Final cut slopes shall be no steeper than 1.5:1 (horizontal to vertical ratio excluding benches).	Approval of grading and drainage plans.	--Regional Water Quality Control Board (RWQCB) --Dept. of Public Works	Prior to commencing construction of structures.	C#44 IMP-Part I
1.03	Final maximum refuse slope gradient at the site will be no steeper than 3 horizontal to 1 vertical for the County Landfill.	Review and approval of periodic inspection reports of fill operations.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings

This Sunshine Canyon Landfill Mitigation Monitoring and Reporting Summary was prepared in compliance with the California Environmental Quality Act (CEQA), Public Resources Code, §21081.6. Pursuant to this section, "The public agency [County] shall adopt a reporting or monitoring program for the changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation."

NOTE: All mitigation measures will have oversight by the Community Advisory Committee and the County Regional Planning Commission through biennial reporting, provided for in Conditional Use Permit 00-194-5 and the Implementation and Monitoring Program. Requirements which are primarily the prerogative of Responsible Agencies are subject to refinement by each Responsible Agency during its discretionary permit process.

IMP: Conditional Use Permit and Oak Tree Permit, Implementation and Monitoring Program.
 C: Conditional Use Permit and Oak Tree Permit, Condition of Project Approval.

SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.04	For the City Landfill and the Joint City/County Landfill, the final maximum refuse slope gradient at the site shall be no steeper than 2H:1V (horizontal to vertical) for the landfill.	Site inspections and review of operations reports.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings
1.05	During excavation, any unsuitable material encountered below the base grade for the landfill, including alluvium, organic material, and landslide debris, shall be removed. Engineered compacted fill shall be placed in those areas to restore the base grade for liner system construction. Excess material not used immediately for cover material shall be stockpiled on-site for future use. The unsuitable material shall be excavated, a portion at a time, as the working area of the landfill progresses to avoid opening large sections of potentially unstable material. A buffer area (i.e. 50 -100 horizontal feet or as deemed appropriate to maintain safe working conditions) shall be used between the active cells receiving waste and areas under excavation. In accordance with CCR Title 14, a certified engineering geologist shall delineate the limits of the unsuitable material and associated "backcuts" to facilitate removals during excavation. Removal shall not occur during the rainy season (October 1 - April 30) or when the ground is saturated, unless performed under the direction and specifications of a certified engineering geologist.	Retention of certified geologist by permittee.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.06	All grading activities shall be performed in accordance with applicable provisions of the County Code and with the rules and regulations as established by the County Department of Public Works. All grading within the landfill footprint that could impact off-site property, including but not limited to grading in connection with cell development, stockpiling, or excavation for borrow and cover materials.	Periodic inspections	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#37
1.07	All grading activities shall be in compliance with specific requirements provided in a comprehensive geotechnical report prepared specifically for the proposed Project, including provisions for excavation approved by the County Department of Public Works, the County Local Enforcement Agency (LEA) and other Responsible Agencies.	Retention of certified geologist by permittee.	--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings
1.08	Areas outside of and above the cut and fill as shown on Exhibit "A-1" or "A-2" hereto (Figure 1-2, dated 6-25-04 in the October 2004 EIR Addendum) will not be graded or similarly disturbed to create landfill areas. The Director of Public Works may approve additional grading, based upon engineering studies provided by the permittee and independently evaluated by the Director. Additional grading would be necessary for slope stability or related drainage purposes.	Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	C#37 IMP-Part I

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.09	No approval would be granted which will result in expanding the area or height of fill or in lowering or significantly modifying any outer perimeter ownership ridgelines.	Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	C#36 IMP-Part I
1.10	When excavating for the landfill operation, once the toe of a landslide is encountered, all material constituting that landslide will be eventually removed. Excess slide material not used for immediate cover material will be stockpiled on-site for future use. The landslide area will be excavated, a portion at a time, as the working area of the landfill progresses to avoid opening large sections of potentially unstable material. A buffer area will be used between the active cells receiving waste and areas under excavation to remove overburdened soils, landslide debris and weathered bedrock. A geotechnical engineer will delineate the limits of the landslide during excavation. Landslide removal will not commence during the rainy season or when the ground is saturated, unless removed under the direction and specifications of a certified engineering geologist.	Retention of certified engineering geologist and registered civil engineer by permittee for regular inspections and oversight.	--LEA --Project certified engineering geologist --Project registered civil engineer --Dept. of Public Works --County Forester	Throughout fill operations.	Report of Waste Discharge Section 5 of Findings
1.11	Grading allows for ancillary facilities outside of the landfill footprint.	Approval of grading and drainage plans.	--Dept. of Public Works --County Forester --LEA	Prior to commencement of the required activity.	Section 5 of Findings
1.12	Areas of excavation and areas of loose soil (i.e. around haul roads, etc.) will be stabilized before the onset of the rainy season.	Retention of certified engineering geologist and registered civil engineer by permittee for regular	--LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		inspections and oversight.			
1.13	Revegetation and erosion control of all exposed slopes will be an ongoing process. The erosion controls to be implemented at the site will include soil stabilization measures and revegetation in accordance with the approved Revegetation Program. The installation of interceptor ditches shall be designed for the diversion of storm runoff to sedimentation basins. Sediment traps will be used at points of runoff concentration along the perimeter of exposed slopes surfaces.	Approval of drainage plan. Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.	--Dept. of Public Works --Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester --RWQCB	Approval prior to commencement of the required activity. Revegetation throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part X
1.14	To prevent soil erosion on the face of the landfill, interim vegetation measures will be taken after placement of the temporary soil layer (even though the area may be disturbed by future filling operations). Vegetative cover will be placed as in the approved Revegetation Program.	Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for ongoing supervision of revegetation programs. Review and monitoring of planting programs by County Forester.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester --RWQCB	Throughout fill operations and on an ongoing basis.	C#44 IMP-Part X
1.15	The permittee's On-site Solid Waste Recovery and Recycling Program includes the diversion of green waste and yard waste materials from the incoming waste stream at the landfill and the processing of these materials for various uses at the landfill. If sufficient quantities are available, the use of shredded green and yard waste materials may be used as a supplement to daily, intermediate, and final cover, to the extent deemed technically feasible and acceptable by regulatory agencies.	Approval of shredded green and yard waste materials as a supplemental cover material.	--California Integrated Waste Management Board (CIWMB) --LEA	Prior to use in fill operations and on an ongoing basis.	C#23 C#24 IMP-Part II IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
1.16	An operations checklist will be used by a certified engineering geologist, registered civil engineer or licensed surveyor for surveys following all earthquake events of 5.0 magnitude or greater wherein significant shaking or rolling movement was experienced at the landfill. All environmental protection and control systems for the landfill will use the best available control technology (BACT) and will be designed to withstand a maximum probable earthquake in accordance with Title 23, Division 3 Chapter 15, §Article 4 2547 of the California Code of Regulations (CCR). A comparison of operating parameters and site conditions before and after major earthquake events (5.0 magnitude or greater) will be made to verify that the designed systems are operational.	Retention of a certified engineering geologist, registered civil engineer or licensed surveyor (for survey only) by the permittee and submittal of survey results to Dept. of Public Works.	--Dept. of Public Works --Project certified engineering geologist, registered civil engineer or licensed surveyor (for survey only)	After earthquake events of 5.0 magnitude or greater.	Section 5 of Findings IMP-Part I
1.17	The landfill facility shall be designed and constructed to meet California Code of Regulations (CCR), Title 14, Division 7, Chapter 3, Article 7.8, § 17777 (Final Site Face) and CCR, Title 23, Division 3, Chapter 15, Article 4, § 2547 (Seismic Design) requirements "to withstand the maximum probable earthquake without damage to the foundations or to the structures which control leachate, surface drainage, erosion, or gas." Design consideration shall include strong ground shaking and secondary ground rupture. In addition, the permittee shall comply with RCRA, Subtitle D, 40 CFR Part 258, Subpart B, § 258.13 (Fault Areas) which states "new municipal solid waste landfill units and lateral	Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	expansions shall not be located within 200 feet (60 meters) of a fault that has had displacement in Holocene time..." The landfill design and seismic analysis will be reviewed by the RWQCB.				
1.18	Alluvium in the canyon bottoms beneath the footprint of the waste containment system and beneath ancillary structures shall be excavated and, if necessary, replaced with compacted structural fill during construction. A qualified geologist shall be on-site during construction activities to observe removal and replacement of alluvium and to verify that all alluvium within the landfill footprint has been removed prior to placement of any compacted fill or construction of any containment system elements.	Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings
1.19	The landfill facility shall be designed and constructed in accordance with RCRA, Subtitle D, 40 CFR, Part 258, Subpart B, § 258.14 (Unstable Areas) so that there would be no liquefaction-related impacts.	Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings
1.20	The landfill facility shall be designed and constructed in accordance with CCR, Title 23, Division 3, Chapter 15, Article 3, § 2530(d) (Classification and Siting Criteria), which requires that "all containment structures at waste management units shall have a foundation or base capable of providing support for the structures and capable of withstanding hydraulic pressure gradients to prevent failure due to settlement, compression,	Retention of certified geologist and/or civil engineer by permittee.	--RWQCB --Dept. of Public Works --LEA	Throughout fill operations	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	or uplift as certified by a registered civil engineer or certified engineering geologist."				
2.0	SURFACE WATER				
2.01	To insure that leachate within the landfill is minimized, surface water runoff will be intercepted and diverted around the landfill. The method of diversion that will be implemented includes the use of lined interceptor ditches placed along the edges of the fill area. This system of ditches will flow into the monitored sedimentation basin.	Approval of drainage plan and Waste Discharge Requirements. On-site inspections by the appropriate regulatory agencies.	--Dept. of Public Works --RWQCB	Prior to commencement of landfill development and on an ongoing basis through landfill closure.	Section 5 of Findings C#38
2.02	The surface water runoff collected in interceptor ditches will be returned to the flood control channel below the operational portion of the site after passing through the monitored sedimentation basin to reduce final sediment content.	Approval of drainage plan and Waste Discharge Requirements. On-site inspections by the appropriate regulatory agencies.	--Dept. of Public Works --RWQCB	Prior to commencement of landfill development and on an ongoing basis through landfill closure.	Section 5 of Findings
2.03	As development of the site proceeds, surface drainage control facilities will be maintained so that surface water runoff is diverted from the working faces and isolated from contact with the waste. On-site drainage control channels will be designed per CCR, Title 23, Division 3 Chapter 15, Article 3, § 2546, which mandates the requirements for a capital storm event (100-year, 24-hour precipitation).	Approval of drainage plan. Retention of registered civil engineer by permittee for inspections and supervision.	--Dept. of Public Works --Project registered civil engineer --RWQCB	Plan approval prior to commencement of landfill development. Surface drainage controls will be phased over the life of the project.	Section 5 of Findings C#38

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
2.04	The proposed Project will have a sedimentation basin within the canyon designed to accommodate a capital storm requirement with a 24-hour time duration.	Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.05	Placement of a series of underdrains in areas where seeps and springs have been identified will collect and convey any water from these sources.	Retention of certified engineering geologist by permittee for inspections and oversight.	--RWQCB --Project certified engineering geologist	Prior to commencing landfill operations. Throughout fill operations.	Section 5 of Findings C#38
2.06	The final cover will be compacted and graded with a minimum three percent (3%) gradient to limit percolation of rainwater and to direct surface water runoff away from the refuse into surface water control systems that ultimately discharge into the monitored sedimentation basin.	Approval of Closure and Postclosure Maintenance Plans. Review of periodic inspection reports of fill operations.	--RWQCB --LEA	Prior to placement of the final cover.	Section 5 of Findings C#37 C#38
2.07	The Department of Public Works will review and approve the drainage control system design for conformance with County Flood Control Standards.	Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.08	Surface water runoff will be handled with a drainage system, including ditches, berms, energy dissipators, and other stormwater management measures, all structures will be designed for capital storm capacity.	Approval of drainage plan.	--Dept. of Public Works --RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.09	In order to monitor the effectiveness of those measures designed to prevent pollution from entering the off-site stormwater system, the permittee shall be required to apply for coverage under the SWRCB's General		--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#38

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Construction Activities Stormwater Permit Programs.				
2.10	The surface water collection system shall be designed to collect runoff and collect/retain suspended solids. Water leaving the sedimentation basin shall be monitored in accordance with NPDES requirements. Sediment shall be cleaned out of the sedimentation basins after every significant storm.	Approval of drainage plan.	--RWQCB --Dept. of Public Works	Prior to commencement of the required activity.	Section 5 of Findings C#38
2.11	Surface water quality shall be monitored by collecting water samples from the sedimentation basin to ensure that water quality protection standards (contaminant levels), as determined for the site by the LARWQCB, are not exceeded. This monitoring program will continue for the active life and post-closure monitoring period of the landfill.	Review and approval of periodic inspection reports, and field inspections by RWQCB personnel. Monitoring in accordance with Waste Discharge Requirements.	--Dept. of Public Works --RWQCB --LEA	Monitoring will occur during landfilling and during the closure and postclosure monitoring period at the landfill.	Section 5 of Findings IMP-Part X
2.12	Permanent bench drainage ditches shall be installed when final cover is placed on completed portions of the landfill. These ditches shall be lined. Temporary unlined drainage facilities consisting of diversion ditches (V-ditches) where necessary shall directly intercept natural surface runoff. Any intermittent channel flow in the existing canyon bottom shall be captured, channeled, and conveyed into a sedimentation basin. Diversion ditches shall convey surface runoff from the undisturbed areas to the permanent perimeter ditches for safe transport around the	Approval of drainage plan.	--Dept. of Public Works --RWQCB --LEA	Prior to commencement of the required activity.	Section 5 of Findings C#38

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	landfill footprint. Surface covers of various types, from mulches to vegetation, shall be used to retard erosion from areas of disturbance. In addition, areas of disturbance shall be kept at a minimum during active filling operations.				
2.13	As filling operations progress upward in elevation and laterally across the canyon, both permanent and temporary drainage facilities shall be used to provide appropriate drainage protection. The lower-elevation portions of the landfill working face shall be placed under final cover as soon as final grade is attained, and bench ditches shall be installed that will connect to adjacent, permanent perimeter ditches. These ditches shall connect directly to the temporary diversion drainage ditches that will protect the active landfill areas from natural surface runoff.	Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings.
2.14	An erosion control plan will be implemented by the permittee to prevent stormwater pollution from construction activity. Construction materials, equipments and vehicles will be stored or parked in areas protected from stormwater runoff. Construction material loading and unloading would be in designated areas to minimize any washout due to stormwater runoff. Pre-construction controls will be implemented to include the use of a sandbagging system, including sandbag check dams and sandbag desilting basins, which would be used to limit runoff velocities and minimize sediment in stormwater runoff.	Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#42

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
2.15	A preventive maintenance program will be implemented by the permittee, including inspection of facility equipment, systems, and stormwater management devices to detect conditions that may cause breakdowns or failures resulting in discharge of materials into stormwater. This program applies to the on-site drainage ditches, rip-rap, berms and dikes, dust control, silt fences, diversion grading, and pavement surfaces. Each system and piece of equipment will be inspected monthly. Procedures for inspection would vary based on the piece of equipment or system. However, the major elements of the inspection program will include checking for cracks or structural failures, inspecting parts or pieces of equipment nonfunctioning, checking for the degradation or deterioration of operating units, and investigating the need for cleaning or emptying units.	Compliance with requirement.	--Dept. of Public Works --RWQCB --LEA	Throughout fill operations.	Section 5 of Findings C#42
3.0	GROUNDWATER				
3.01	The landfill will be operated as a Class III nonhazardous landfill. This landfill will not accept for disposal: incinerator ash, sludge, radioactive material, hazardous waste, medical waste, as defined in Section 25023.2 of the California Health & Safety Code, and liquid waste, as defined in state laws and regulations, waste which contains soluble pollutants in concentrations that exceed applicable water quality objectives, and waste which could cause degradation of waters of the state as determined by the RWQCB.	Issuance of Solid Waste Facilities Permit.	--CIWMB --LEA	Prior to commencement of the required activity.	C#28

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
3.02	The permittee shall install, for the proposed landfill area, such liner system as is approved by the Regional Water Quality Control Board (RWQCB), in compliance with the Resource Conservation and Recovery Act (RCRA), Subtitle D, 40 CFR, Part 258.40 (Design Criteria). The liner systems shall be of equal or better effectiveness to the liner design approved by the RWQCB for the City portion of the landfill.	Review and approval of project's design. Report of Waste Discharge and issuance of Waste Discharge Requirements.	--RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#39
3.03	Areas of natural groundwater seepage will be intercepted by the installation of a subgrade gravel drainage system approved by the RWQCB.	Review and approval of the Report of Waste Discharge	--RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#38 C#39
3.04	An independent inspector shall be on-site during the preparation of the approved liner for verification that required conditions of installation are met, to the satisfaction of the LEA and the RWQCB.	Retention of a certified engineering geologist by permittee for inspections.	--Project certified engineering geologist --RWQCB --LEA	During the installation of the soil liner.	Section 5 of Findings C#39
3.05	Final design and operating conditions for the Leachate Collection and Removal System (LCRS) will be as specified by the RWQCB in the Waste Discharge Requirements. The LCRS will be designed and installed in accordance with CCR, Title 23, Division 3 Chapter 15, Article 3 §2543(b), which requires that the LCRS be "designed, constructed, maintained, and operated to collect and remove twice the maximum anticipated daily volume of leachate from the waste management unit." Summary results of the	Review and approval of the project's design, the Report of Waste Discharge and the issuance of Waste Discharge Requirements.	--RWQCB	Prior to commencement of the required activity.	Section 5 of Findings C#39

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	sampling shall be disseminated in the newsletter with more detailed reporting on the website and in the Annual Report.				
3.06	The existing deep bedrock groundwater monitoring wells located within the City portion of Sunshine Canyon will continue to be monitored during the development of the landfill within the County portion of Sunshine Canyon. These wells may be supplemented with additional wells if required by RWQCB and shall promptly undertake any corrective action required by RWQCB.	Monitoring and inspections in accordance with Waste Discharge Requirements	--Project certified engineering geologist --RWQCB --LEA	Throughout fill operations and during the closure and postclosure maintenance period.	Section 5 of Findings C#40
3.07	The Closure and Postclosure Maintenance Plans will be required as part of the operating permit for the landfill. Closure regulations are defined in the CCR, Title 14, Chapter 5, Article 3.4. Landfilling operations will cease once final approved elevations are reached, or at the end of the term of the grant.	Approval of the Closure and Postclosure Maintenance Plans.	--CIWMB --RWQCB --LEA	Prior to placement of final cover at final approved elevations.	Section 5 of Findings C#17
3.08	The operation and final closure of the Facility will be monitored by the LEA, as well as by the RWQCB.	Inspections and review of monitoring reports.	--LEA --RWQCB	Throughout fill operations and during final closure activities.	Section 5 of Findings C#17
3.09	As the landfill is constructed, all alluvium will be removed to solid bedrock, thereby removing any connection with groundwater-bearing alluvium down-gradient within Sunshine Canyon.	Retention of certified engineering geologist by permittee for supervision and on-site inspections by the RWQCB.	--RWQCB --Project certified engineering geologist --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
3.10	Application of daily, intermediate, and final cover in accordance with applicable regulatory requirements will restrict leachate formation by inhibiting the infiltration of water into the landfill.	Review and approval of periodic inspection reports during fill operations.	--LEA --RWQCB	Throughout fill operations.	Section 5 of Findings C#39
3.11	Irrigation will be limited to insure a balance between irrigation and evapotranspiration. Revegetation plant species will be County approved drought tolerant.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist for ongoing supervision of revegetation programs.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --LEA	Throughout fill operations.	Section 5 of Findings C#41
3.12	Dust control water will be applied to wet only the upper soil surface. Evaporation is the natural means whereby this water is dissipated.	Field inspections by permittee and RWQCB.	--Facility Manager --RWQCB	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#45
3.13	A gas collection layer shall be placed beneath the liner system where it overlies the existing inactive landfill to mitigate the potential for LFG migration.	Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#39
3.14	Pursuant to the 1999 City approval, the existing groundwater monitoring wells located within the City portion of Sunshine Canyon will continue to be monitored during the development of the proposed Project; and the monitoring system may be revised as construction progresses in the areas where wells are located as approved by the LARWQCB.	Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#40

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
3.15	Underground diesel fuel storage tanks will be installed, monitored, and inspected in compliance with CCR Title 23, Division 3, Chapters 16 and 17, and applicable provisions of the County Code. Underground tanks would be double-walled and have sufficient secondary containment and a leak interception and detection system to prevent fluid migration.	Field inspections by permittee's QA/QC company and agencies.	--RWQCB --Dept. of Public Works	Throughout fill operation.	Section 5 of Findings C#43 C#55
4.0	BIOTA				
4.01	The permittee will dedicate to the County (or to a public agency designated by the County) the westerly portion of the permittee's ownership, consisting of approximately 426 acres - primarily within an area referred to as East Canyon, as well as easements for the use of approximately 81 acres located along the northerly and westerly perimeters of the landfill site. This property will be used for open space, wildlife preservation and recreational use. The instrument of dedication and easements will provide that no uses inconsistent with the landfill be permitted, it will further provide for the right of permittee and/or its contractors to enter onto the property to engage in oak tree, wetlands and other mitigation projects, the right to maintain water tanks, fire access roads and other safety facilities as required to operate the landfill.	Dedication to County or other public agency designated by the County.	--Dept. of Parks and Recreation --Facility Manager	Prior to commencement of development activities on the landfill site. This mitigation measure has been completed.	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.02	The permittee, in cooperation with the County Department of Parks and Recreation, will identify, relocate (where feasible) and dedicate the necessary rights-of-way for public use for horseback riding and hiking trails within areas of East Canyon, Bee Canyon, O'Melveny Trail and/or Weldon Canyon Trail.	Dedication to County or other designated public agency.	--Dept. of Parks and Recreation --Facility Manager	Prior to commencement of development activities on the landfill site. This mitigation measure has been completed.	Section 6 of Findings
4.03	The permittee will retain an individual who is well-qualified by education and training in the biological sciences (including local animal and plant communities) and whose duties will include participation in the review of any installation of equipment or other activity in East Canyon and any resource assessment prepared in connection with such activity.	Retention of independent qualified biologist by the permittee.	--Dept. of Regional Planning	Prior to commencement of development activities on the landfill site. This mitigation measure has been completed.	Section 6 of Findings IMP-Part VI
4.04	Within thirty (30) days after the 1993 project grant effectuation, and before commencement of disposal operations at the landfill, the permittee will commence acquisition negotiations (for public open space) with the owners of Parcels 335 and 337 located within Upper Bee Canyon, and with the owner of that portion of Parcel 336 located easterly of the East Canyon Motorway.	Dedication to County or other public agency designated by the County.	--Dept. of Regional Planning	Within thirty (30) days from effectuation of 1993 project grant or before commencement of disposal operation negotiations for parcels will take place. Within three (3) months after acquisition, parcels will be dedicated to the County or other public agency designated by the County.	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
				This mitigation measure has been completed.	
4.05	The permittee will finance studies pertaining to the remaining Significant Ecological Areas (SEAs). As permits are granted for other projects removing portions of the remaining SEAs, such permits will be required to share in the financing of additional studies, on a pro-rata basis determined by the amount of acreage removed from SEAs; the permittee will be reimbursed accordingly.	<p>Permittee will deposit with the Director of Planning the following:</p> <p>--A sum of \$432,000.00 prior to the commencement of construction of the landfill, and</p> <p>--Annually (on January 10th of each year) for the life of the project's grant submit the sum of \$81,000.00 to update County SEA studies.</p>	--Dept. of Regional Planning	<p>--Prior to commencement of the required activity. This mitigation measure has been completed.</p> <p>--Annually for the duration of the grant.</p>	Section 6 of Findings C#68
4.06	Subject to approval by the City of Los Angeles and except as may otherwise be provided by the City, the approximate 100-acre buffer (open space area) zone located southeast of the existing City landfill in the City of Los Angeles will be maintained by the operator as a nature preserve and will be enhanced with vegetation to promote wildlife.	Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of revegetation programs.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --City of Los Angeles	Throughout fill operations and on an ongoing basis.	Section 6 of Findings
4.07	The approximately 100-acre buffer zone will not be developed with the exception of development necessary to continue the existing use for gas, oil and lease operations, and such uses as approved by the City of Los	Retention of a consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of	--Project consulting horticulturalist/Registered Professional Forester and an independent	Throughout fill operations and on an ongoing basis.	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Angeles. This area will continue to serve as a buffer between the landfill operation and other properties and will be maintained as open space. The area will also be enhanced with vegetation to promote wildlife.	revegetation programs.	qualified biologist --City of Los Angeles		
4.08	The external abutting slopes and peaks of the ridgelines surrounding the Sunshine Canyon Landfill shall remain undisturbed as shown on Exhibit "A-1" or "A-2" hereto (Figure 1-2 dated 6-25-04 in the October 2004 EIR Addendum). The upper portions (50 vertical feet below ridgelines) of the closest adjacent abutting external perimeter ownership ridgeline will also be left undisturbed. The upper perimeter ridges of the landfill will be planted with native trees in order to minimize visibility of the landfill.	Installation of survey monuments for verification of landfill elevations and conductance of survey for inclusion in Biennial Monitoring Reports to Regional Planning Commission.	--Dept. of Public Works --Dept. of Regional Planning --County Forester --LEA	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#35
4.09	After development of the initial fill area, clearing of existing on-site vegetation for operations will be done only when necessary to provide for new cut and fill areas of the project site. Only small areas will be cleared at any one time. Wholesale or large scale clearing of vegetation in Sunshine Canyon will not occur. Additionally, the soils, slash and debris which might provide suitable habitat for harboring pests will be removed. Registered forestry experts under contract by the permittee will monitor the condition of the trees in the Sunshine Canyon for pest infestation.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for supervision. Inspections by County Forester.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 6 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.10	The permittee shall comply with all terms and Conditions of Oak Tree Permit No. 86-312-(5). The permittee is authorized to remove oak trees within the project areas as necessary to conduct landfill operations authorized by this grant and subject to the requirements of Part VII of the Implementation and Monitoring Program attached to Oak Tree Permit 86-312-(5). Prior to approving any excavation of more than five acres containing significant stands of oak and/or Douglas fir trees, the Director of Public Works shall confer with the Los Angeles County Forester and Fire Warden.		--County Forester --Dept. of Public Works --Permittee's Registered Forester	Throughout fill operations.	C#35
4.11	An Oak Tree Mitigation Plan will be implemented in a manner intended to meet or exceed the minimum replanting requirements of the Los Angeles County Oak Tree Permit 86-312 and will include measures for replacement oak tree planting within Sunshine Canyon, East Canyon, and other off-site areas acceptable to the County Forester. This plan also provides for a 5-year Monitoring and Management Program to guarantee survival of replacement trees for a minimum of 5 years after the trees are established at 1-inch in diameter and 1-foot above the natural grade.	Issuance of the Oak Tree Permit. Monitoring and inspections by County Forester pursuant to formal "Agreement" with permittee. Agreement will include provisions for: - Permanent photo points established to document oak tree growth and establishment; - Accounting for each tree removed; - Comprehensive annual inventory; and - Monthly inspections by County Forester. Additional provisions will specify corrective procedures for the permittee, suspension circumstances, dispute resolution and financial security for	--County Forester --Project Registered Forester --Dept. of Regional Planning --LEA	Throughout fill operations and on an ongoing basis.	IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
		implementation guarantee. Retention of a Registered Professional Forester by permittee for implementation of the replanting programs.			
4.12	The permittee will provide a minimum 2:1 replacement for oaks and a 5:1 replacement for Bigcone Douglas-fir. Replacement oak and fir trees will be counted when the tree reaches 1-inch diameter at 1-foot above the natural grade. Other tree species will also be planted. The permittee will maintain and monitor the oak trees for a minimum 5-year period after reaching count-size status to provide a minimum two-hundred 200% replacement.	Issuance of the Oak Tree Permit. Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester --Dept. of Regional Planning	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI
4.13	All oak trees will be counted when removed to verify that adequate mitigation has been provided in accordance with the Oak Tree Mitigation Plan.	Monitoring by County Forester. Submittal of biennial report by permittee.	--County Forester --Project Registered Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part VII IMP-Part X
4.14	The permittee will guarantee the survival of Bigcone Douglas-fir for a 5-year period after trees are established at 1-inch in diameter at 1-foot above the natural grade. Tree seedlings would be grown on-site, in the permittee's greenhouse. The higher stands of existing fir trees located on the uppermost ridge slopes will not be disturbed by the landfill development.	Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester.	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part VII

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.15	Nonnative tree species shall be replaced at a 2:1 ratio, consisting of 3-gallon Coast live oak trees.	Monitoring and inspections pursuant to formal Agreement.	--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.16	Native tree species shall be replaced at a 2:1 (replacement: removal) ratio, consisting of 15-gallon or 5:1 3-gallon container trees. Mitigation trees shall be planted prior to impacted trees being removed, thus allowing trees to grow to specimen size in the field. A specimen-size tree shall be defined as a 15-gallon tree with a minimum trunk caliper of one inch measured one foot above ground. All mitigation trees shall be specimen size within one year after tree removal.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.17	A total of one-hundred 24-inch box and twenty-five 36-inch box size Coast live oak trees shall be planted in areas identified by the City. These trees shall be natural in form. The total mitigation tree count obtained using the 5:1 replacement ratio shall be reduced by 125 trees to account for the inclusion of these larger trees.		--City of LA Dept. of Parks & Recreation	This mitigation measure has been completed.	Section 5 of Findings
4.18	Mitigation tree planting shall occur within the ±100-acre open space area located south of the existing inactive landfill. Appropriate planting locations shall be selected within the buffer area based on soil type, steepness of the slope, and aspect (i.e. location and/or direction of the sun).		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.19	Prior to tree planting, the mitigation site shall be prepped to create an environment favorable for native and nonnative tree growth and survival. The initial step in tree planting is to clear away unwanted grass, weeds, or brush. A minimum 3-foot radius of vegetation shall be cleared around the planting location. All planting holes shall be dug to a minimum depth of 24 inches. If soil conditions cannot accommodate the minimum depth, planting holes shall be relocated to a more suitable location. Trees will be spaced 15 to 20 feet in a random, nongeometric pattern. Row or grid spacing will be avoided to provide a natural look to the mitigation planting.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.20	A poultry wire screen with 1-inch-diameter holes shall be installed around the outside wall of the tree planting hole and folded closed on the bottom. The screen shall extend downward to enclose the root ball of the tree that will protrude one-foot above final grade.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.21	Backfill material shall be used, planting material shall consist of loose friable soil. The planting shall be backed to a depth that allows the root crown of the plant to be even with or slightly higher than the surrounding grade. All planting locations shall be pre-irrigated to ensure that more levels are at or near capacity.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.22	Prior to tree planting, all containers shall be thoroughly soaked. Once at the mitigation site, trees shall not be removed from their		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	containers until all site preparation work has been completed. The wire cage shall be installed around the planting hole, and backfill material shall be filled to one-half the depth of the root wad. A 27-gram Agriform fertilizer tablet shall be placed approximately one-inch from the root wad. Backfilled soil shall be tamped and soaked to remove any air pockets.				
4.23	Following tree planting, the area shall be mulched with either wood chip or recycled green waste. The mulch shall be applied in an even layer approximately 6 inches or more in thickness.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.24	Drip irrigation shall be provided for all planted trees to ensure adequate growth and to allow for year-round planting. The irrigation system shall include a liquid fertilizer injection system to maintain optimum plant health and growth.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings
4.25	The irrigation system shall utilize plastic polyvinyl chloride piping as its main supply lines. Distribution lines shall consist of 1/2-inch diameter polyethylene drip tubing. Water shall be delivered to the plants via conventional drip spot emitters. Vortex emitters rated at 1 to 3 gallons per hour shall be used for the emitters. All irrigation waters shall be filtered through a "Y" filter containing a 150 mesh screen. The irrigation systems shall be controlled automatically with remote battery-powered controllers and electrical irrigation valves. Watering frequency and duration shall be adjusted as necessary, depending on soil		--County Forester --Project Registered Forester	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	condition, weather, and plant requirements.				
4.26	To assure successful establishment and survival of the mitigation trees, a 3-year monitoring and maintenance program shall be implemented. Each year, the mitigation planting shall be monitored for growth and survival.		--County Forester --Project Registered Forester.	Throughout fill operations.	Section 5 of Findings IMP-Part VI IMP-Part X
4.27	Venturan Coastal Sage Scrub: A detailed conceptual mitigation plan shall be prepared by the permittee and shall contain specific information on planting, maintenance, and monitoring. A revegetation plan that includes coastal sage scrub restoration can feasibly occur on-site. The implementation of this plan will provide on-site mitigation greater than 1:1 to offset the loss of coastal sage scrub.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.28	Venturan Coastal Sage Scrub: Surface soils and seed sources will be gathered from areas of the Project site and spread within on-site mitigation areas.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.29	San Diego Horned Lizard: Impacts on the San Diego horned lizard can be mitigated to a level of less than significant by restoring coastal sage scrub habitat. This will create a temporal loss of the species, but the population should recover following restoration of this habitat. Topsoils should be selected that are friable to suit lizard habitat requirements.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.30	California Gnatcatcher: Surveys shall be conducted for California gnatcatchers prior to on-site grading to determine the status of this species within development areas. Surveys shall be conducted in accordance with USFWS protocol and, if present, a Section 10(a) permit from the USFWS would be obtained by the permittee. If grading activities occur during the nesting season (i.e. March through July), a federally permitted biologist will survey areas of Project development to determine whether the species is present. If California gnatcatchers are present, on-site grading activities shall cease until USFWS officials are notified. Either additional coastal sage scrub restoration or the purchase of suitable off-site habitat will be required if California gnatcatchers are found on-site.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.31	Least Bell's Vireo: Surveys shall be conducted for <i>least Bell's vireo</i> prior to on-site grading to determine the status of this species within development areas. Surveys shall be conducted in all areas of potential habitat. If this species is present on-site, a Section 10(a) permit from the USFWS would be obtained by the permittee. If grading activities occur during the nesting season (i.e. April through July), a biologist will survey areas of Project development to determine if the species is present. If present, on-site grading activities shall cease until USFWS officials are notified.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.32	Western Burrowing Owl: Preconstruction surveys shall be conducted by a consulting biologist at least 30 days prior to Project grading to determine if the species is within the County portion of the Project site. If surveys indicate the presence of western burrowing owls, a relocation program shall be implemented.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.33	Migratory Bird Treaty Act: To prevent the loss of an active migratory bird nest, vegetation shall not be cleared during the breeding season (i.e. March 15 to August 1). If vegetation clearing needs to occur, surveys shall be conducted by biologists to determine active migratory bird nests. All active migratory bird nests shall be protected until the young become independent.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.34	Raptor Nests: If habitat removal is proposed during the raptor breeding season (i.e. March to July), a survey shall be conducted for active nesting areas. If active nests are found, no construction activity shall take place within 500 feet of an active nest until the young have fledged. The 500-foot perimeter around each active nest shall be fenced. Trees containing nests shall only be removed during the non-breeding season.		--LEA --California Fish & Game	Throughout fill operations.	California Fish & Game Permit
4.35	An annual monitoring report shall be prepared and submitted by the permittee to the County Forester. This report shall detail the growth		--County Forester --Project Registered Forester	Throughout fill operations.	Oak Tree Permit 86-312

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	and survival record for each mitigation tree planted. The report will provide an accounting of the number of trees required for mitigation versus the number of qualifying trees planted. Maintenance recommendations will be included in the annual report.				
4.36	Areas of the site will be revegetated as required by the Conditional Use Permit, Conditions of Project Approval and the requirements of the CIWMB (Revegetation Plan and Closure and Postclosure Maintenance Plans). Suitable vegetation will be planted as part of the Revegetation Plan to provide habitat for wildlife and enhance existing open space areas.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for implementation of revegetation programs in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester --LEA --CIWMB	Throughout fill operations and on an ongoing basis.	Section 5 of Findings IMP-Part VI IMP-Part X
4.37	The landfill will be planted with a mosaic of trees, shrubs and grasslands to provide a variety of suitable habitats for wildlife. As operating lifts are completed, the finished slope will be covered with 15 feet (i.e. horizontal width) of amended soil and recycled green waste placed on the front surfaces of slopes that have received the impermeable seal as shown on Exhibit "B." Soil amendments will be included to balance any unsuitable characteristics such as acidity (Ph). Fertilizers will be added at the time of soil placement and will continue as part of the permittee's ongoing maintenance program. This soil cover will provide rooting material for the final vegetation. Revegetation will take place concurrently with landfilling operations as development of the landfill progresses up	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of revegetation measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans. Approval and monitoring by County Forester and LEA.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester --LEA --CIWMB	Throughout fill operations.	Section 5 of Findings IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	the canyon. Relatively small (2 to 3 acres) active filling areas and other operations areas (maximum 5 acres each for liner preparation, cut-for-cover areas, etc.) of the landfill will not be revegetated. The remainder of the inactive disturbed areas on-site will be planted with either temporary or permanent vegetation.				
4.38	Recycled green waste will be used as permitted to amend cover soils to provide an enhanced revegetation growing medium.	Approval of green waste material as soil amendment.	--County Forester	Throughout fill operations.	Section 6 of Findings IMP-Part II
4.39	Revegetation of slopes and fill areas with appropriate native flora will be accomplished to support local fauna.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#41 IMP-Part VI IMP-Part X
4.41	The Revegetation Plan will, insofar as possible, obtain replacement cover material from within Sunshine Canyon to retain soil composition compatible with native flora and leave the surrounding topography undisturbed.	Revegetation measures in accordance with Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#41 IMP-Part VI
4.42	Areas inactive for 180 days or longer will be planted with interim vegetation as approved by County biologist. Records will be kept to track fill areas of the site which are transferred to an	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by	--Project consulting horticulturalist/Registered Professional Forester	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#44 IMP-Part VI IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	inactive status so that appropriate dust control and revegetation measures can be implemented.	the permittee to review fill records and implement revegetation measures. Monitoring by the LEA and the County Biologist.	and an independent qualified biologist --County Biologist --LEA		
4.43	The permittee will provide replacement riparian habitat on a 2:1 ratio as part of the overall Riparian and Wetland Mitigation Plan. Mitigation for the disturbance to 5.46 acres of riparian habitat from the landfill will be provided by expanding and enhancing existing riparian habitat and creating approximately 11.0 acres of new riparian habitat through a program of tree planting, streambank stabilization, streambed enlargement or streamzone rehabilitation in existing degraded drainage channels. As a component of the Riparian and Wetland Mitigation Plan, new streamzone/wetland areas will meet U.S. Army Corps of Engineers criteria, and will also be created within the riparian systems so that there will be no net loss in wetland values or area as a result of the landfill project. Approximately 4.2 acres of streamzone/wetlands will be created to compensate for losses due to development within the landfill project site area. Final site selection and detailed engineering plans and working drawings of the Riparian and Wetland Mitigation Plan will be coordinated fully with the applicable regulatory agencies so that the final acceptable plan will be developed based on the concepts described in the permittee's Riparian and Wetland Mitigation Plan.	Issuance of Section 1603 Permit by Dept. of Fish and Game. Issuance of Nationwide Permit (No.26) by U.S. Army Corps of Engineers. Implementation of mitigation programs in accordance with approved plans.	--CA Dept. of Fish and Game --U.S. Army Corps of Engineers	Prior to commencement of landfill development. Implementation throughout fill operations. This mitigation measure has been completed.	Section 6 of Findings C#7 C#63 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
4.44	The permittee shall continue to work with the California Department of Fish and Game, the U.S. Army Corps of Engineers and the City of Pasadena to monitor the approved and implemented wetlands and riparian habitat restoration project (Lower Arroyo Seco Restoration Project, Corps File Number 94-00124-AOA, California Department of Fish and Game Streambed Alteration Agreement Number 5-445-91), as required by said permits, or at such time as the restoration Project is accepted by the City of Pasadena.		--U.S. Army Corp of Engineers --California Fish & Game	Until acceptance by the City of Pasadena.	Section 6 of Findings C#63
4.45	Periodic monitoring of the site for vector activity will be performed by the permittee. Corrective measures will be taken should a problem be detected. Rodent-related problems will be controlled in accordance with regulations established by the County Department of Health Services and the California State Department of Health. Flies will be controlled by a trap-and-destroy program and by the use of daily cover. The use of sprays will be avoided to the fullest extent possible. Gull activity shall be effectively controlled by the permittee.	Review and approval of periodic monitoring reports and field inspections.	--County Dept. of Health Services	Throughout fill operations.	Section 5 of Findings C#7 C#56 IMP-Part III
4.46	Operational techniques shall be utilized to limit vector activity, including compacting waste at the landfill active working face, properly applying cover material, keeping the active working face as small as safely possible given the type and number of landfill equipment, properly grading interim fill surfaces and final	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#56

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	fill slopes, and eliminating ponding areas at the Project site.				
4.47	All equipment shall be in good condition and cleaned in a frequency and manner so as to prevent the propagation or attraction of flies, rodents, or other vectors, and the creation of nuisances.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.48	Items used at the landfill facility that could attract vectors (e.g. food, seed, office supplies, etc.) shall be stored in closed containers and/or within an enclosed structure. These containers shall be inspected regularly and be disposed of if they appear to be an attraction to any vectors.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.49	Salvaged materials generated on-site or imported shall be placed away from storage areas, and other activity areas, and limited to a volume approved by the LEA or other approval agencies, minimizing the harborage or attraction of flies, rodents, or other vectors, and the creation of nuisances.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56
4.50	All buildings, paved areas, landscaped areas, and perimeter areas shall be inspected regularly for signs of vectors. Any building openings, ground holes, and deficiencies shall be repaired as they are discovered during routine inspections to prevent the intrusion of any ground vectors.	Monitor operations and site facilities.	--County Dept. of Health Services --LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#7 C#56

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
5.0	ARCHAEOLOGICAL, HISTORICAL AND PALEONTOLOGICAL RESOURCES				
5.01	Prior to the commencement of initial earth excavation, specific sections of the landfill project area will be resurveyed as a precautionary measure to minimize potential loss of undiscovered archaeological or paleontological resources. Specific sections of the project area to be resurveyed will be determined by the intended cut and fill areas proposed for landfill development. As new areas for excavation are identified by the permittee, an evaluation of the need for resurveying of those areas will be made based on prior survey results and consultation with the appropriate technical specialists. Factors to be considered for delineation of areas to be resurveyed will be known site selection factors associated with aboriginal groups suspected of having inhabited the general area. These factors include: proximity to water; the type of local vegetation (e.g., food source, shelter, and fuel); and the topography (e.g., slope and aspect).	Retention of a qualified archaeologist and a paleontologist by the permittee for implementation of surveying measures. Written reports to be submitted with each Biennial Monitoring Report to the Regional Planning Commission.	--Dept. of Regional Planning --Project archaeologist and paleontologist	Prior to commencement of landfill development and throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII IMP-Part X
5.02	An archaeologist and paleontologist will be on-site during major infrastructure work which requires significant excavation. In the event that archaeological and paleontological resources are discovered during grading or excavation, the archaeologist and/or paleontologist shall be allowed to redirect grading away from the area of exposed fossils	Retention of a qualified archaeologist and a paleontologist by permittee for surveying.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	to allow sufficient time for inspection, evaluation, and recovery.				
5.03	Periodic monitoring by a paleontologist will occur during grading activities. The paleontologist shall be retained to perform inspection of the excavation and salvage fossils. Collected fossils shall be curated at a public institution with an education/research interest in the material. Any curatorial expenses shall be borne by the landfill operator.	Retention of a qualified paleontologist by permittee for surveying.	--Project paleontologist	Throughout fill operations.	Section 5 of Findings C#62 IMP-Part VII
5.04	The permittee will instruct landfill equipment operators how to identify archaeological and paleontological resources and upon discovery of such findings will immediately report the location of the site finding to their supervisor. If any evidence of aboriginal habitation or fossils are discovered during earthmoving activities, landfill operations will cease in that particular location until a qualified archaeologist or paleontologist has made a determination as to the significance of the site or findings. Any significant archaeological or paleontological resources will be recovered to the extent practicable prior to resuming activities in that area of the landfill. Due to the potential for rapid deterioration of exposed surface fossils, preservation by avoidance is not an appropriate measure. When fossils cannot be removed immediately, the site shall be stabilized to prevent further deterioration prior to data recovery or the fossil location as directed by a professional paleontologist.	Retention of a qualified archaeologist and a paleontologist by permittee for supervision.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
5.05	Archaeological resources recovered during surface collection, subsurface excavations, and monitoring, with related records, notes, and technical reports, shall be curated at a regional repository approved by the County.	Retention of a qualified archaeologist and a paleontologist by permittee for supervision.	--Project archaeologist and paleontologist	Throughout fill operations.	Section 5 of Findings C#62
6.0	AIR QUALITY				
6.01	<p>The permittee shall utilize the most effective available technology and methodology to avert fugitive dust emissions. In addition to the revegetation measures required in Condition 41 and in the Mitigation Monitoring and Reporting Summary, the program shall include:</p> <p>(1) The permittee shall not engage in any excavation or other operation during high wind conditions (15 minute average wind speed exceeds 15 mph or instantaneous wind speed exceeds 25 mph), or when such conditions may be reasonably expected, that would result in significant emissions of fugitive dust which cannot be confined to the area under the permittee's control.</p> <p>(2) The working face area shall not exceed an aggregate of 10 acres in the combined City/County Landfill, an aggregate of 3 to 5 acres in the County Landfill when not operating as a combined landfill, or as determined by the Local Enforcement Agency to better protect the public health and safety. At times of the year when high wind conditions may be expected, the</p>	Monitoring and inspections by the SCAQMD and the LEA.	--SCAQMD --LEA	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#7 C#45 IMP-Part X

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SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>working face shall be located within areas of minimal wind exposure or may be closed, if so determined by the Local Enforcement Agency. Pursuant to the 1999 City approval, the disturbed area (subject to the surface erosion) will be reduced from 40 acres to 20 acres when operations occur south of the smaller former filling area of the existing inactive City Landfill.</p> <p>(3) Except during rainy conditions, daily cover shall be moistened with water to retard erosion, and a soil sealant shall also be used to supplement water for dust control, and to retard erosion when wind conditions dictate.</p> <p>(4) Except during rainy conditions, any active area or active cover soil stockpile shall be moistened with water on a daily basis unless wind conditions dictate otherwise, in which case soil sealant shall be used in addition to water.</p> <p>(5) Subject to approval by the California Integrated Waste Management Board (CIWMB), filling in each active area shall be prolonged through the utilization of a 20-foot maximum lift height. This would reduce the area of excavation and minimize the disturbances to the landfill, thereby providing an effective control of fugitive dust.</p> <p>(6) A SCAQMD approved soil stabilization</p>				

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<p>(sealant) product shall be used to retard soil erosion and enhance revegetation. Soil sealant shall be applied when necessary to selected working areas of the landfill. The sealant will also be used as a binder or tackifier to hold seed during revegetation, mulch, and fertilizers in-place until grasses become established and stabilize on the landfill surface. (Mitigation Measure Section 4.2.12 in the FEIR).</p> <p>As determined by the LEA, before each day when the Facility will be closed to solid waste receipt, the permittee shall apply soil sealant to any previously active dirt area that has not already been sealed or re-vegetated.</p> <p>Inactive areas of exposed dirt that have been sealed shall be regularly monitored to determine the need for additional sealing and to prevent unauthorized access that might disturb the sealant, and, if additional treatment is required, it shall be promptly applied to assure full control of the soil particles.</p> <p>(7) Except during rainy conditions, all dirt roads in regular use shall be watered at least once daily on operating days and more often if required by the LEA or the Director of Public Works, or otherwise treated to control dust emissions. For unpaved clay roads, mitigation shall include a SCAQMD-approved chemical dust suppressant with a manufacturer's</p>				

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SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>demonstrated control efficiency in excess of 90 percent shall be regularly applied to inactive areas, during windy periods.</p> <p>For unpaved crushed stone covered roads, mitigation shall include the use of a crushed stone topcoat in addition to the regular application of a SCAQMD-approved chemical dust suppressant and subsequent watering, a control efficiency in excess of 95 percent is predicted. (Mitigation Measure Section 4.2.12 in the FEIR).</p> <p>(8) All access roads to permanent facilities, except those infrequently used, shall be paved. The paved access road to the fill areas shall be extended as new areas are opened to minimize the length of the dirt road. Winter deck access roads shall be paved or surfaced with recycled asphalt, aggregate materials or soil stabilization products to minimize the length of untreated dirt. Curbs and gutters shall be constructed. At least twice daily, watering or wet sweeping of paved roads to remove windblown surface dust shall occur. (AP-42 assigns a control efficiency of 50 percent for twice weekly cleaning of industrial paved roads. With twice daily cleaning, a control efficiency in excess of 90 percent is predicted).</p> <p>(9) Loads capable of producing significant dust shall be watered during the dumping process. If such a practice is deemed not</p>				

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<p>acceptable to the RWQCB, the permittee shall develop alternative methods to minimize dust generation during the dumping process and obtain approval of the Director of Public Works within 90 days of the effective date of this grant.</p> <p>(10) The permittee shall maintain water tanks and piping capable of supplying by gravity at least one full day's maximum water usage, as determined by the LEA, to the fill areas for dust control, which capacity shall be in addition to any fire flow required by the County Forester and Fire Warden.</p> <p>(11) The permittee shall install and maintain devices to monitor wind speed and direction, as specified by the SCAQMD, and shall retain qualified personnel to read and interpret the data, to obtain or utilize information on predicted wind conditions and to assist in the planning of operations at the Facility.</p> <p>(12) The permittee shall submit quarterly reports to the Director of Public Works listing all fugitive dust and odor complaints received from residents and all Notices of Violation issued by the SCAQMD or the LEA as well as the measures undertaken to address the complaints and to correct the violations.</p> <p>The Director of Public Works and the DHS-SWMP shall each have the authority to require the permittee to implement</p>				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	additional corrective measures when such measures are deemed appropriate to protect public health and safety.				
6.02	Dust control will also be accomplished through the temporary revegetation of the landfill surface. A temporary vegetation cover will be established on all slopes that are to remain inactive for a period longer than 180 days. Specifications of temporary revegetation measures will be provided in the Revegetation Plan submitted to the County biologist for approval, the Closure and Postclosure Maintenance Plans, the Conditional Use Permit, and Conditions of Project Approval.	Monitoring and inspections by the SCAQMD and the LEA. Retention of horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for implementation of measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--SCAQMD --LEA --Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 6 of Findings C#7 C#44 IMP-Part X IMP-Part VI
6.03	Access roadways will be paved up to the active fill area to minimize fugitive dust emissions. Main access roads will be paved, and paved roadways will extend up Sunshine Canyon to new active fill areas as development of the landfill progresses. The access haul roads extended to new fill areas shall be surfaced with recycled asphalt, aggregate materials, or soil stabilization products to minimize the length of untreated dirt. Paved roads will be cleaned on a regular basis.	Review and approval of periodic inspection reports of fill operations.	--LEA	Throughout fill operations.	Section 6 of Findings C#7 C#45 IMP-Part X
6.04	Material cut from one portion of the site will be used as cover material in an adjacent area, to the extent practical; thereby reducing the travel distance cover material is transported.	Periodic inspection reports of fill operations.	--Facility Manager	Throughout fill operations.	Section 6 of Findings C#7 C#45 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
6.05	The landfill will be operated in accordance with SCAQMD Rule 1150.1 and other SCAQMD regulations and with applicable Department of Public Works requirements.	Issuance of the SCAQMD Permit to Construct and Operate. Monitoring and inspections by the SCAQMD.	--SCAQMD	Throughout fill operations.	Section 6 of Findings C#7 C#45 C#52
6.06	Landfill gases will be controlled and extracted in compliance with SCAQMD Rule 1150.1. The gas collection and extraction system will consist of a series of horizontal and vertical wells installed in phases as each portion of the landfill is developed. Regular landfill surface monitoring will determine which specific areas will require additional vertical collection wells.	Issuance of the SCAQMD Permit to Construct and Operate. Inspections by the SCAQMD and the Dept. of Public Works. Monitoring programs and reports in accordance with SCAQMD permit regulations.	--SCAQMD --Dept. of Public Works	Permit issuance prior to commencement of landfill development. Monitoring throughout fill operations.	Section 6 of Findings C#7 C#52
6.07	Flaring systems shall be sited as required by the SCAQMD and constructed using BACT. The flames shall be totally contained within the stack. Flame arrestors shall be provided to the satisfaction of the SCAQMD and the County Forester and Fire Warden. The permittee will convert gas, as it is recovered, to a renewable energy resource and to the extent technically and economically feasible.	Approval of gas collection system plan and issuance of the SCAQMD Permit to Construct and Operate.	--SCAQMD --County Forester and Fire Warden	Permit issuance prior to commencement of landfill development.	Section 5 of Findings C#7 C#52
6.08	The site design of the landfill includes queuing lanes at the check-in stations for early morning truck arrivals (prior to the opening of the landfill). Drivers will be given notices and signs will be posted at the landfill entrance which will indicate a 5-minute maximum idling allowance. Such a policy will remain in effect throughout the landfill's operating hours.	Review and approval of periodic inspection reports of fill operations.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#7 C#51

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Furthermore, an efficient, computerized, express checking-in system will be considered for the landfill to minimize on-site truck idling at the check-in station. This system will be utilized for major account haulers (i.e. approximately fifteen (15%) to twenty (20%) of landfill users, and up to forty (40%) of the total daily intake). This express system will achieve minimal waiting at the check-in stations and reduced on-site queuing time for trucks to check-in.				
6.09	<p>The following mitigation measures will reduce emissions to the maximum extent reasonably feasible:</p> <ul style="list-style-type: none"> a. The permittee will maintain equipment in tune per manufacturer's specifications. b. The permittee will use catalytic converters on gasoline-powered equipment. c. The permittee will tune all diesel engines to manufacturer's specifications. d. High-pressure fuel injectors will be installed. e. Heavy equipment will use reformulated, low-emission diesel fuel. f. The permittee will substitute electric and gasoline-powered equipment for diesel-powered equipment where feasible. g. Where applicable, equipment will not be left idling for prolonged periods. h. The permittee will curtail (cease or reduce) construction during periods of high ambient pollutant concentrations (i.e. Stage II smog alerts). (<i>Mitigation Measure Section 4.2.11 in Final EIR</i>). 	Review of Operations Records.	--SCAQMD LEA	Throughout fill operations.	Section 6 of Findings C#7 C#51

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6.10	<p>Mitigation measures A and B will be applied to the permittee's operated refuse trucks that utilize the Project site, and the remaining mitigation measures will be applied to all refuse trucks accessing the Project site.</p> <p>a. Refuse trucks shall be maintained in proper tune. Trucks observed to emit excessive amounts of smoke (particulate matter) shall either be tuned up or repaired, as applicable.</p> <p>b. Where applicable, high-pressure fuel injector nozzles shall be used, and diesel engines shall be tuned to manufacturers' specifications.</p> <p>c. Using a progressive fee schedule, the permittee shall encourage all refuse trucks accessing the project site to carry full loads.</p> <p>d. The permittee shall encourage trucking to be performed during off-peak hours. This shall be accomplished through coordination of deliveries with the transfer stations that supply refuse, restrictions in the hours of operation, and/or a fee schedule that penalizes haul trucks arriving during peak congestion periods. This will reduce emissions by increasing truck speeds and eliminating prolonged idling in traffic.</p> <p>e. When operating on-site, trucks shall not be left idling for periods in excess of 5 minutes.</p> <p>f. Private owner-operators shall be warned that, if their trucks emit excessive amounts of smoke as determined by scale house workers, they will not be allowed future access to the landfill facility.</p>	Review of operation records.	--SCAQMD LEA	Throughout fill operations.	Section 6 of Findings C#7 C#51

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SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>6.11 The permittee shall be subject to the following requirements regarding non-diesel, alternative fuel vehicles and equipment:</p> <p>a. Upon the Effective Date of this grant, all light-duty vehicles operated at the facility shall be alternative fuel vehicles, to the extent deemed technologically and economically feasible by the TAC;</p> <p>b. Within the first year after the Effective Date of this grant, there shall be 10 alternative fuel refuse collection trucks or transfer trucks at the Facility, to the extent deemed technologically and economically feasible by the TAC;</p> <p>c. Within the first year after the Effective Date, the permittee shall prepare and submit an alternative fuel vehicle report to the TAC for review and approval. The report shall contain information on available alternative fuel technologies and their economic feasibility, as well as other information deemed necessary by the TAC to determine the feasible use of alternative fuels at the Facility;</p> <p>d. Within the first year after the Effective Date, the permittee shall design and implement at least one heavy-duty, alternative fuel off-road equipment pilot program, to the extent deemed technologically and economically feasible by the TAC;</p> <p>e. Within three years after the TAC determines that non-diesel, alternative fuel vehicles are technologically and economically feasible:</p> <p>1. The permittee shall require all transfer trucks entering the Facility to be non-diesel alternative fuel-vehicles; and</p>	Review of Operation Records.	--SCAQMD LEA	Mitigation measure 6.11B has been completed.	Section 6 of Findings C#7 C#77

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<p>2. All transfer trucks and collection trucks owned or leased by the permittee and used at the Facility shall be non-diesel Alternative fuel vehicles;</p> <p>f. Within six years after the TAC determines the appropriate technological and economic feasibility, 75 percent of all of truck trips entering the Landfill, with a Solid Waste capacity of at least nine tons, shall be made by non-diesel alternative fuel vehicles;</p> <p>g. With the assistance of the SCAQMD and the DPH-LEA, the permittee shall use its best efforts to participate in a clean fuel demonstration program with one or more types of off-road heavy-duty equipment; and</p> <p>h. As part of its annual report to the TAC required by the IMP, the permittee shall submit an ongoing evaluation of its compliance with each component of this Condition No. 77. The permittee may appeal the requirements of the Condition No. 77 to the Director of the Department in accordance with the procedure described in Condition No. 11 for the appeal of a notice of violation, but only on the bases of whether a particular alternative fuel is technologically or economically feasible.</p>				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
7.0	ODOR/LANDFILL GAS				
7.01	Landfill gases will be prevented from escaping to the atmosphere through control measures which also will effectively control odor. These control measures include (1) small 2 to 3-acre active fill areas, as deemed necessary; (2) covering the working face on a daily basis; (3) filling surface cracks in the cover material with clean dirt; (4) extracting landfill gases through the use of the landfill gas extraction system, and (5) compacting solid waste within 1 hour of its arrival at the working face.	Approval of gas collection system plan and issuance of Permit to Construct and Operate. Review and approval of periodic inspection reports of fill operations.	--SCAQMD --LEA	Permit issuance prior to commencement of landfill development. Monitoring throughout fill operations.	Section 5 of Findings C#7 C#52 IMP-Part X
7.02	The gas collection system will be installed in phases, as each portion of the landfill is filled. The gas collection system will contain a network of gas extraction wells, collection piping and flaring facilities. Because landfill gas generation begins at lower levels of volume and increases with time, the gas will be initially flared until sufficient quantities are available for possible use as a renewable energy resource.	Approval of gas collection system plan and issuance of Permit to Construct and Operate.	--SCAQMD	Permit issuance prior to commencement of landfill development.	Section 5 of Findings C#7 C#52 IMP-Part X
7.03	The following odor/landfill gas monitoring program will be implemented for the landfill. The monitoring program complies with the requirements of the SCAQMD Rule 1150.1 and those of the County Department of Public Works. This program will include: (1) Sample probe installation. Monitoring	Issuance of Permit to Construct and Operate. Monitoring programs conducted by permittee (monthly monitoring reports) and SCAQMD in accordance with permit requirements.	--SCAQMD	Permit issuance prior to commencement of landfill development. Monitoring throughout fill operations.	Section 5 of Findings C#7 C#52 IMP-Part X

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<p>probes will be installed at a spacing of 1,000 feet around the landfill perimeter (where feasible) or as otherwise determined by the SCAQMD. All probes will be monitored to ensure that quantities of landfill gas beyond regulatory standards do not migrate off-site through the subsurface soils;</p> <p>(2) Integrated landfill surface sampling. The landfill surface will be periodically monitored to ensure that the average concentration of total organic compounds over the landfill surface does not exceed the SCAQMD's standard of 50 ppm;</p> <p>(3) Ambient air samples at the landfill perimeter. Periodic, 24-hour integrated gas samples and required meteorological data will be taken to assess any impact the landfill is having on air quality at the landfill perimeter;</p> <p>(4) Instantaneous landfill surface monitoring. Spot checks on the landfill surface will be made to determine the maximum concentration of total organic compounds measured as methane at any one point on the landfill's surface does not exceed the SCAQMD's standard of 500 ppm; and</p> <p>(5) Regular Monitoring and Annual Testing: LFG concentrations at perimeter probes, gas collection system headers, the landfill surface, and in ambient air downwind of the landfill shall be monitored once a month or less frequently as required by the SCAQMD.</p>				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	The LFG collection system shall be adjusted and improved based on the quarterly monitoring data and annual stack testing results.				
7.04	Risks associated with the gas collection and flaring system shall be mitigated through use of flexible piping, flame arrestors, sensors, and automatic shutoff controls. Numerous safety shutdown devices have been designed and installed into the flare station, including a telephone auto-dialer, to provide emergency notification. All gas extraction equipment, including gas condensate and propane tanks, shall be adequately secured to prevent damage during a seismic event. Inspections of the gas collection and flaring system shall be performed after ground-shaking from an earthquake, and necessary action shall be taken to correct any potential problems.	Approval of gas collection system.	--SCAQMD	Throughout fill operations	Section 5 of Findings C#7 C#52
7.05	Equipment operators involved in excavation shall be made cognizant of the potential presence of existing unrecorded subsurface wellheads. If a wellhead (or other unidentifiable obstruction) is encountered during construction, all excavation activities shall cease. The area will be cordoned off, and the landfill supervisor shall be called to determine whether the obstruction is an abandoned wellhead.	Monitor and adjustment of operations by permittee.	--SCAQMD --LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings C#7 C#52
7.06	If an odor problem should develop, appropriate control measures shall be implemented.	Monitor and adjustment of operations by permittee.	--SCAQMD --LEA	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	These measures include the application of daily cover material or more frequent application of the cover material to seal the landfill surface, or adjustments to the wells, equipment, and operation of the LFG collection and recovery system.		--Facility Manager		
7.07	The permittee will recover and sell as much gas as is technically and economically feasible to reduce total air quality emissions from the landfill operations. It is expected that the technical and economic feasibility of commercial recovery and sale of landfill gas as a renewable energy resource will occur at levels below 40 MMCFD. The gas collection system will be installed in increments to allow for maximum gas recovery.	Inclusion of reports of fill operations in Biennial Monitoring Reports to Regional Planning Commission.	--Facility Manager	Throughout fill operations.	Section 5 of Findings C#7 C#52 IMP-Part IV IMP-Part X
8.0	TRAFFIC/CIRCULATION				
8.01	The permittee will install or fund traffic improvements at the landfill entrance and to local feeder highways deemed "warranted" by the City of Los Angeles. Warranted, means justified on the basis of established standards of the City and by accepted traffic engineering practices. As determined by the City, traffic improvements may include: (1) The widening and/or restriping and installation of traffic signals at the landfill entrance located on San Fernando Road, and (2) The restriping of turning lanes at the	Review and approval of intersection improvement plans.	--LADOT	This mitigation measure has been completed. This mitigation measure has been completed. This mitigation measure has been completed.	Section 5 of Findings C#57

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<p>Intersection of San Fernando Road and Balboa Boulevard.</p> <p>The combined City/County Landfill will include the following City-imposed mitigation measures set forth in the City's Mitigation Reporting and Monitoring Program and the County EIR Addendum.</p> <p>For those intersections where project-related traffic volumes are expected to create poor operating conditions and/or significantly impact the operating conditions of the study area intersections, mitigation is designed to improve and/or change the existing intersection geometry - thereby, increasing existing intersection capacity. Capacity improvements shall include roadway widening, roadway restriping, reconfiguring roadways, or providing additional lanes to various approaches of a key intersection.</p> <p>a. Roxford Street at the I-5 Freeway, (SB off-ramp): Restripe westbound approach on Roxford Street to provide dual left-turn lanes and one through lane.</p> <p>b. Roxford Street at the Encinitas/I-5 Freeway (NB off-ramp): Restripe northbound approach on Encinitas Avenue to provide left-turn lane, shared through/ left-turn lane, and shared through/ right-turn lane.</p> <p>As a voluntary improvement, permittee</p>			<p>completed.</p> <p>Prior to landfill operations reaching a total waste intake level of 9,000 tons per day. Application to all waste received including recyclable material.</p> <p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p>	<p>Section 5 of Findings C#57</p> <p>Section 5 of Findings C#57</p>

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<p>will convert the southbound option left/through/ right-turn lane of the two-lane, northbound "loop" off-ramp, to a through/right-turn lane, thereby eliminating the left-turn option for the shared lane. The use of the I-5 northbound "direct" off-ramp by trucks will not be allowed. Instead, trucks will be required, and directed by permittee, to use the I-5 northbound/Roxford "loop" off-ramp. Permittee will provide signage to conform to Caltrans and LADOT requirements.</p> <p>c. San Fernando Road at Balboa Boulevard: LADOT required permittee to contribute a "fair share" fee in the amount of \$114,591, which was paid on June 13, 2003, to make this intersection part of the San Diego Freeway Corridor Phase I, Automated Traffic Surveillance and Control System, (Completed)</p> <p>d. San Fernando Road at Sierra Highway Restripe northbound approach on San Fernando Road to provide a shared through/right turn lane and exclusive right-turn lane and restripe the westbound approach of Sierra Highway for a 12-foot-wide curb lane.</p> <p>LADOT determined that in lieu of this mitigation measure, the permittee had to fund the design and construction of a traffic signal at Sierra Highway and San Fernando Road, in addition to the re-</p>			<p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p>	<p>Section 5 of Findings C#57</p> <p>Section 5 of Findings C#57</p>

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<p>striping of Sierra Highway to create a separate left-turn lane and shared left/right-turn lane on the westbound approach of Sierra Highway; and this mitigation measure has been fully bonded by BFI.</p> <p>e. San Fernando Road at Project Driveway. Install a new traffic signal at San Fernando Road/Project Driveway and widen and restripe the northbound approach of San Fernando Road at Project Driveway to provide a left-turn lane and through lane. Also contribute to the design, construction, and operation of the Northeast Valley ATSAC system for this intersection. The current cost of ATSAC for the Northeast Valley System is \$79,000 per intersection. The contribution to ATSAC shall be completed prior to the start of construction for this ATSAC system, which is scheduled for the year 2003.</p> <p>f. The required street improvements and signal modifications shall be guaranteed before the issuance of any building permit for this project through the B-permit process of the Bureau of Engineering, Department of Public Works, and the encroachment permit process of Caltrans (where applicable). Construction of the improvements to the satisfaction of LADOT, the Bureau of Engineering, and Caltrans (where applicable) must be completed before issuance of any</p>			<p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p>	<p>Section 5 of Findings C#57</p> <p>Section 5 of Findings C#57</p>

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<p>certificate of occupancy. Prior to setting the bond amount, the Bureau of Engineering shall require that the developer's engineer or contractor contact LADOT's B-Permit Coordinator, telephone (213) 580-5336, to arrange a pre-design meeting to finalize the proposed geometric and traffic signal designs for the project. (Permittee has complied and filed a bond in the amount of \$200,000.)</p> <p>g. Parking and Safety on San Fernando Road at Sierra Highway. Parking and safety concerns were addressed and mitigated by measures outlined in Measure 8.01e, above.</p> <p>h. Bicycle Routes. Localized impact along San Fernando Road bicycle lane from increased truck traffic at or near the landfill.</p> <p>i. Signage. Signage cautioning the public that that heavy truck traffic exist in the area has been installed at the entrance to the landfill and along San Fernando Road.</p> <p>j. Divert Trips. If the landfill meets its weekly and/or daily maximum limit, the permittee shall implement a program to avert wasted trips to the landfill and illegal disposal. The program shall include the following:</p> <p>(1) Scheduling of regular users, such as commercial and municipal haulers, to avoid their arriving at</p>			<p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p> <p>This mitigation measure has been completed.</p>	<p>Section 5 of Findings C#57</p> <p>Section 5 of Findings C#59</p> <p>Section 5 of Findings C#59</p> <p>Section 5 of Findings C#26</p>

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	<p>the landfill and being diverted to other landfills;</p> <p>Reservation of capacity for small commercial and private users, unless an alternative landfill or transfer station located within 5 miles of the permittee's landfill is available to accept such users.</p> <p>k. Fernando Road at the Base of the I-5 off-ramp. In lieu of a traffic signal (that may or may not be needed at this intersection) LADOT is requiring permittee to provide \$125,000 to fund the construction of such a traffic signal if and when it is pursued by LADOT in conjunction with future improvements along San Fernando Road. (Permittee paid the fee on July 15, 2004).</p>			<p>This mitigation measure has been completed.</p>	<p>Section 5 of Findings C#57</p>
8.02	<p>Prior to operation of the combined City/County Landfill, the permittee shall pay to the State of California Department of Transportation ("Caltrans") a sum not to exceed \$422,183 for the freeway transportation improvements as outlined in the Supplemental Traffic Data Information Report. Permittee shall be given credit towards this sum for project-related mitigation performed within Caltrans' jurisdiction.</p>		<p>--Caltrans --Dept. of Public Works</p>	<p>Prior to start of City/County operation.</p>	<p>C#58</p>
8.03	<p>Prior to operation of the combined City/County landfill, the permittee shall install street lights along the project frontage on San Fernando Road to the satisfaction of the City of Los</p>		<p>--LADOT --Dept. of Public Works</p>	<p>Prior to start of City/County operation.</p>	<p>C#60</p>

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Angeles Bureau of Street Lighting.				
8.04	The Department of Public Works, the County LEA, and the Community Advisory Committee shall monitor the performance of the conditions of this grant designed to minimize truck traffic. In the event such measures are found to be inadequate, such entity or entities shall notify the Director of the Department and describe the inadequacy of the conditions. Based on this notice, the Director of the Department may, pursuant to the modification procedures of the County Code for conditional use permits, recommend to the Commission that this grant be modified to add measures to ensure the adequacy of these traffic-related conditions.		--Dept. of Public Works --LEA --Dept. of Regional Planning	Throughout fill operations.	C#61
8.05	If deemed advisable post advance warning signs on San Fernando Road (i.e. W-51, "SLOW TRUCKS," or the non-standard "TRUCK CROSSING") in advance of the landfill entrance.		--Project traffic engineer --LADOT	Prior to commencement of fill operations. This mitigation measure has been completed.	Section 5 of Findings C#57
8.06	A speed zoning survey will be conducted (if necessary) to determine the need to post reduced speed signs at San Fernando Road in advance of the landfill entrance.	Review of survey results for determination.	--LADOT	Prior to commencement of fill operations. This mitigation measure has been completed.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
8.07	Weigh scales will be installed at the landfill.	Implementation in accordance with an agreement with County.	--Dept. of Public Works --LEA	Prior to commencement of fill operations. This mitigation measure has been completed.	Section 5 of Findings IMP-Part II
8.08	The permittee shall charge its customers higher tipping fees for delivering partial truck loads to the Facility, and for delivering trucks to the Facility during peak commuting hours. Notwithstanding the preceding sentence, in lieu of charging higher tipping fees, the permittee may implement some other program, as approved by the Department of Public Works, to discourage this type of activity by its customers.	Biennial Monitoring Report to the Regional Planning Commission.	--Facility Manager	Throughout fill operations.	Section 5 of Findings C#27 IMP-Part X
8.09	The landfill entrance gate at San Fernando Road shall be opened at 5:00 a.m. on weekdays, and at 6:00 a.m. on Saturdays, except as needed to accommodate post-holiday disposal requirements, to allow the on-site queuing of vehicles. This will avert parking of waste trucks on San Fernando Road. Further, more refuse or dirt may be accepted at other times, except on Sundays, if the Local enforcement Agency (LEA) determines that extended hours are necessary to handle disposal for the preservation of the public health and safety. Refuse may be accepted at the landfill scales between the operating hours of 6:00 a.m. through 6:00 p.m., Monday	Review of periodic inspection reports of fill operations.	--LEA --Dept. of Regional Planning	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#29

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	through Friday, and 7:00 a.m. through 2:00 p.m. on Saturdays, except as needed to accommodate post-holiday disposal requirements.				
8.10	By January 1, 1994, the permittee will complete a comprehensive study of the feasibility of nighttime landfill operations. If nighttime operations are found to be feasible, the permittee will return to the County with an application to permit such operations. Nighttime operations would include the receipt at the landfill up to 2,000 gross tons of material from solid waste transfer stations and material recovery facilities. Subject to future conditions imposed by the Board, the waste trucks must arrive at the landfill between the hours of 3:00 a.m. to 6:00 a.m., and the waste delivered to the landfill will not be delivered by more than 100 transfer trucks.	Comprehensive study on the feasibility of nighttime landfilling operation to be prepared by the permittee and submitted to the Department of Regional Planning.	--Dept. of Regional Planning	By January 1, 1994. This mitigation measure has been completed.	1993 Condition
8.11	The permittee will post signage at the landfill entrance, provide handouts and maintain regular monitoring to discourage the parking of commercial trucks along San Fernando Road. If necessary, regulatory agencies will be notified by the permittee of parking enforcement problems.	Review of periodic inspection reports of fill operations.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#57 IMP-Part X
8.12	All traffic mitigation measures will be funded by the permittee upon approval by appropriate authorities and will be constructed by such authorities or the permittee.	Compliance with permit requirements for roadway mitigation.	--LADOT	As required for implementation.	Section 5 of Findings C#57

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
8.13	Queuing space for up to 130 trucks has been provided to preclude the necessity for on-street parking prior to the morning opening of the landfill.	Design and monitor as required.	--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings C#29
9.0	NOISE				
9.01	<p>Landfill access for the disposal of refuse will be limited to the following:</p> <p>(1) The landfill shall be closed on Sunday;</p> <p>(2) Refuse may be accepted at the landfill scales between the hours of 6:00 a.m. to 6:00 p.m. Monday through Friday, and 7:00 a.m. to 2:00 p.m. on Saturday, except as needed to accommodate City post-holiday disposal requirements. The landfill entrance gate at San Fernando Road shall be open to waste-hauling vehicles at 5:00 a.m. Monday through Friday, and at 6:00 a.m. on Saturday, except as needed to accommodate post-holiday disposal requirements, to provide for onsite queuing of vehicles. Further, refuse or dirt may be accepted at other times, upon notification that the LEA determines that extended hours are necessary to handle emergency disposal for the preservation of the public health and safety;</p> <p>(3) Landfill operations, such as site preparation and maintenance, the application of cover, and waste processing shall be conducted between the hours of</p>	Field inspections by the LEA.	--LEA	Throughout fill operations and on an ongoing basis.	C#29

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>6:00 a.m. and 9:00 p.m. Monday through Saturday. This operating restriction shall not apply to Facility activities that require continuous operation, such as gas control.</p> <p>(4) Equipment maintenance shall be limited to the hours of 4:00 a.m. through 9:00 p.m. Monday through Saturday, except for equipment repairs. No diesel vehicle shall be started before 5:00 a.m.</p> <p>(5) Environmental mitigation and emergency operations which cannot be accomplished during the hours stated above may be performed at any time and shall be noted in the Annual Report.</p>				
9.02	Small commercial and private users who will use the landfill will be encouraged by the permittee to use alternate routes other than Balboa Boulevard, because this roadway is in close proximity to residential areas.	Provide information to small commercial and private users.	--Facility Manager	Throughout fill operations and on an ongoing basis.	Section 5 of Findings
9.03	All landfill equipment will be equipped with low-noise mufflers and air flow silencers on intake systems (if available) and will be properly maintained.	Field inspections by the LEA and provide periodic maintenance of landfill equipment.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#53 County Noise Ordinance, Title 12 State and federal requirements IMP-Part X(B)(6)(7)

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
9.04	The permittee will also investigate options for other frequency backup alarms systems which meet State and federal (OSHA) standards.	Field inspections by the LEA and provide periodic maintenance of landfill equipment.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings State and federal requirements C#53
10.0	VISUAL				
10.01	The maximum permitted elevations for the landfill will not be exceeded at any time during landfill development. Elevations will be verified periodically through survey control points. Stockpiled soil and final cover soil shall not be subject to this limitation.	Installation of survey monuments for verification of landfill elevations and the conductance of a survey for inclusion in Biennial Monitoring Reports to the Regional Planning Commission.	--Dept. of Public Works	Prior to commencement of the required activity. Surveys throughout fill operations.	Section 5 of Findings C#7 C#18 IMP-Part I IMP-Part X
10.02	The final fill elevations for the landfill will be maintained below the closest adjacent abutting external ownership perimeter ridgeline, as shown on Exhibits "A-1" and "A-2," Exhibit B (Figure 1-1 in the October 2004 EIR Addendum), and the County's approved construction plans.	Installation of survey monuments for verification of landfill elevations.	--Dept. of Public Works	Prior to commencing landfilling operations.	Section 5 of Findings C#7 IMP-Part I IMP-Part X
10.03	The highest point of the landfill flares will be located below the adjacent ridges and the flame will be totally contained within the flare stack.	Issuance of SCAQMD Permit to Construct and Operate.	--SCAQMD	Permit issuance prior to commencement of fill operations.	Section 5 of Findings C#7 C#52 SCAQMD Permit to Construct and Operate IMP-Part X
10.04	The excavation of cover material will be confined to several areas at the landfill site. These areas may or may not be landfilled dependent upon location.	Review of periodic inspection reports of fill operations.	--LEA	Throughout fill operations.	Section 5 of Findings C#7 C#45 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
10.05	All lighting shall be shielded and directed onto the site. No floodlighting shall be located that can be seen directly by adjacent residents, motorists on adjacent public streets or highways, or pilots within the "Airport Approach Zone." This condition shall not preclude the installation of low-level security lighting.	Site inspection by agencies.	--LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings C#7
10.06	As part of revegetation efforts for the landfill extension, the upper ridges of Sunshine Canyon will be planted with native tree and vegetation species (oaks and ground cover) to supplement the existing vegetation on the ridges and to reestablish bare areas.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for supervision and oversight. Monitoring by the County Forester.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#44 IMP-Part VI IMP-Part X
10.07	Trees will be planted around the outer enclosing ridges of the landfill perimeter.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by permittee for implementation of planting programs.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --County Forester	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#44 IMP-Part VI
10.08	The permittee shall comply with the following cover and re-vegetation requirements at the Landfill: (1). The permittee shall apply a temporary hydroseed vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall promptly notify the County LEA and the Department of Public Works of any such slope	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for supervision.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations.	C#44 IMP-Part VI

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SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>or area;</p> <p>(2) Prior to disposing of any Solid Waste within 10 feet of the boundary of the Limits of Fill, the Permittee shall submit to the County LEA and the Director of the Department for review and approval an interim reclamation and re-vegetation plan, which plan shall include the timing of the proposed work;</p> <p>(3) No final cut slopes shall be steeper than 1.5:1 (horizontal to vertical ratio, excluding benches), and all final cut slopes shall be approved by the Department of Public Works in accordance with said Departments' grading requirements;</p> <p>(4) Except as otherwise provided in this Condition No. 44, all final fill slopes shall be reclaimed and re-vegetated in lifts substantially in conformance with Figure 5, "Typical Cross-Section Final Landfill Cover and Re-vegetation Plan," Page 39, Final Environmental Impact Report ("FEIR"), Volume A, Responses to Comments (dated July 13, 1990), which figure is attached as Exhibit "B" to the Responses to Comments, and also as described in the "Sunshine Canyon Landfill Extension Revegetation/Closure Plan," FEIR, Volume A, Responses to Comments, Appendix 3, which figure and plan are attached as Exhibit "C."</p> <p>(5) Notwithstanding the foregoing, the permittee shall not be bound by the previous provisions of this Condition No. 44, but instead by the requirements of the County LEA, so long as the Limits of Fill are not exceeded, if in consultation with the Department of Public Works, the County LEA determines that a different re-vegetation design or plan: (1)</p>				

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>would better protect public health and safety;</p> <p>(2) would enable revegetation of the final slopes at least as well as shown in Exhibit "B" described in subsection D, above; and/or (3) would be required because the minimum standards adopted by the CIWMB have been amended;</p> <p>(6) the permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 44. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing procedures and results. To the extent possible, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of rapid growth. The selected plants shall not include non-indigenous species that are likely to be invasive of adjacent natural areas.</p>				
10.09	<p>The final cover of the landfill will be landscaped with a ground-cover mix and plant species that are compatible with the immediate area and will be maintained in a natural setting until the time that it is converted to its final use.</p>	<p>Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist by the permittee for supervision. Approval of Closure and Postclosure Maintenance Plans.</p>	<p>--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist --LEA</p>	<p>Throughout fill operations.</p>	<p>Section 5 of Findings C#44 IMP-Part X IMP-Part VI</p>

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
10.10	The 100-acre buffer zone on the southern boundary of the landfill will be maintained and enhanced.	Monitoring by consulting horticulturalist/Registered Professional Forester and an independent qualified biologist.	--LEA --Facility Manager --Dept. of Public Works	Ongoing basis.	Section 5 of Findings IMP-Part VI
10.11	<p>The permittee's on-site Litter Control Program will include (unless otherwise provided for by the LEA), the following:</p> <p>(1) Facility personnel shall continuously patrol the access road to the Landfill scales during the Landfill's hours of operation and remove any litter found during the patrol;</p> <p>(2) Loads of Solid Waste that are improperly covered or contained and which may create significant litter shall be immediately detained, and if practicable, correctly covered or contained prior to proceeding to the Working Face. If such a remedial measure cannot be taken, the load shall proceed to the Working Face under escort;</p> <p>(3) All debris found on or along the entrance to the Landfill and/or Working Face access roads shall be immediately removed; and</p> <p>(4) At every active Working Face area, the permittee shall install a primary portable litter fence eight feet in height, and a secondary fence four feet in height behind the primary fence when wind conditions dictate the need for a secondary fence.</p>	Monitoring and field inspections by the LEA. Inspection report results included in Biennial Monitoring Reports to Regional Planning Commission.	--LEA --Facility Manager	Throughout fill operation.	Section 5 of Findings C#46

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>The permittee shall employ any and all additional measures as necessary to control litter. On windy days and when the fences are not sufficient, the Working Face shall be located within areas of LEA. The County LEA may require additional measures deemed necessary to effectively control litter.</p> <p>(5) On a regular basis, the permittee shall mobilize cleanup crews to provide litter pickup services within the O'Melveny Park area along Balboa Boulevard and San Fernando Road, and in other residential areas located in proximity to the landfill that may be affected by off-site litter migration. On a daily basis, the cleanup crews shall inspect the surrounding area to assess if more frequent cleanups are required.</p> <p>(6) The permittee shall employ additional measures as necessary to control litter.</p>				
10.12	<p>To the satisfaction of the Director of Public Works and the LEA, the permittee will maintain programs aimed at controlling the discharge on the landfill and recovery of litter from uncovered or improperly covered or contained loads traveling to the landfill, including:</p> <p>The permittee shall implement a vehicle tarping program at the Facility, as approved by the Director of Public Works, to discourage untarped vehicles from using the Facility. All</p>	Monitoring and field inspections by the LEA. Inspection report results included in Biennial Monitoring Reports to Regional Planning Commission.	--LEA --Facility Manager --Dept. of Public Works	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#76 IMP-Part X

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	vehicles loaded with Solid Waste or any other material that creates the potential for litter shall, to the greatest extent possible, be tarped when entering and leaving the Facility, and no such vehicle shall be allowed to enter the Facility until the driver has been informed of the tarping requirements and has been asked to have his/her load covered. In addition to any other penalty set forth in this grant, repeat violators of this Condition No. 76 shall be subject to the penalties described in the vehicle tarping program and may be permanently prohibited from using the Facility.				
11.0	WATER CONSERVATION				
11.01	<p>The permittee shall operate the Facility in a manner that conserves water, including, but not limited, to the following:</p> <p>a. Any water wells used for the project shall, if approved by the appropriate agencies, draw from the Sunshine Canyon watershed;</p> <p>b. The permittee shall investigate the feasibility of treating collected leachate on-site for reuse in the landfill and shall, if feasible and approved by the appropriate agencies, implement a program to utilize such water;</p> <p>c. Soil sealant, pavement, and other control measures shall be used wherever possible in preference to water for dust control; and</p> <p>d. To the extent feasible, as determined by the</p>	Review and approval by responsible agencies.	--LEA --RW/QCB	Throughout fill operations.	C#41

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Director of Planning, drought-tolerant plants shall be used to re-vegetate the landfill slopes and other disturbed areas. Plant types shall blend with species indigenous to the area and shall be capable of rapid establishment.				
11.02	Native and drought-tolerant plant species will be used to revegetate the landfill site as approved by County biologist.	Retention of consulting horticulturalist/Registered Professional Forester and an independent qualified biologist to implement planting measures in accordance with the Revegetation Plan and the Closure and Postclosure Maintenance Plans.	--Project consulting horticulturalist/Registered Professional Forester and an independent qualified biologist	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#41
12.0	FIRE SERVICE				
12.01	The permittee will maintain brush clearance measures consistent with permit requirements of the County of Los Angeles municipal code. Fire-resistant native plants shall be maintained free of combustible litter (i.e., partly decayed/organic matter). These plants shall be used without restriction within the brush clearance zone.	Review and approval of development plans by Dept. of Forester and Fire Warden. Periodic inspections.	--Dept. of Forester and Fire Warden	Inspections throughout fill operations and on an ongoing basis.	Section 5 of Findings C#54
12.02	The permittee will maintain and expand existing on-site fire response capabilities through use of heavy operating equipment and readily available fire extinguishing equipment. A 200-foot long, 1-1/2 inch diameter fire hose will be available on water trucks for fire-fighting at the working area. In addition, earth moving equipment will be available for controlling fires	Review and approval of development plans by Dept. of Forester and Fire Warden. Periodic inspections.	--Dept. of Forester and Fire Warden	Inspections throughout fill operations.	Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	by smothering fires with dirt. Access roads will be constructed and maintained around the working area of the landfill to provide emergency access for firefighting equipment.				
12.03	The permittee shall maintain on-site fire response capabilities, construct access roads, provide water tanks, water mains, fire hydrants and fire flows and perform brush clearance to the satisfaction of the County Forester and Fire Warden. The landfill will comply with all applicable County codes and ordinances which delineated the requirements for fire access, water mains, fire flows and fire hydrants, specifically defined by the County Fire Department. New construction of water tanks, water mains and fire hydrants will be completed to meet the fire flow requirements of the Fire Department.	Review and approval of development plans.	--Dept. of Forester and Fire Warden	Prior to commencement of fill operations.	Section 5 of Findings C#54 IMP-Part X
12.04	All on-site fuel storage tanks shall be installed and necessary containment and air quality controls provided in accord with the requirements of the County Forester and Fire Warden, the County DPW, the RWCQB, the SCAQMD, and other applicable regulations. Labeling and reporting of motor fuel storage will comply with provisions of Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986.	Issuance of fuel storage permit.	--County Fire Marshal --RWQCB	Prior to installation of storage tanks.	Section 5 of Findings C#55 Proposition 65
12.05	No building or portion of a building shall be constructed more than 150 feet from the edge of a roadway of an improved street, access road, or designated fire lane. Any person		--County Fire Marshal		Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	owning or having control of any facility, structure, or group of structures on the premises shall provide and maintain Fire Department access. Fire breaks, roads, and fire trails shall be maintained by the permittee in accordance with County Fire Department requirements.				
12.06	On-site structures shall be continuously monitored for the presence of unsafe levels of methane gas.	Monitor as required by permittee.	--LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 IMP-Part X
12.07	If necessary, the permittee shall install electrical (e.g., battery backup) combustible gas detectors in habitable structures. Employees shall be trained in all applicable safety requirements to prevent any upset conditions from occurring.	Monitor as required by permittee.	--LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 IMP-Part X
12.08	The permittee shall provide fire control in compliance with CCR, Title 14, Division 7, Chapter 3, Article 7.6, § 17741 (Burning Wastes). If burning waste is received at the landfill site it shall be deposited in a safe, isolated area of the landfill and extinguished. If burning waste has been deposited at the working face area, it shall immediately be excavated, spread, and extinguished		--LEA --County Fire Marshal		Section 5 of Findings C#7 C#54
12.09	In the event the permittee detects settlement or venting of smoke, the LEA shall be contacted. The permittee, under the direction of the LEA, shall undertake appropriate measures to	Monitor as required by permittee.	--LEA --City & County Fire Dept. --Dept. of Public	Throughout fill operations.	Section 5 of Findings C#7 C#54

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Identify the location of the subsurface fire and implement the appropriate fire control techniques to assure the fire has been extinguished.		Works		
12.10	<p>A detailed fire response plan that incorporates the County Fire Department requirements shall be prepared, and signs shall be posted onsite prohibiting open burning within the project area. The following procedures shall be maintained;</p> <p>(1) Fire extinguishers shall be maintained in all heavy equipment, onsite work vehicles, and all structures as required by County Fire Department.</p> <p>(2) All internal combustion engines used in landfilling operations shall be equipped with spark arresters.</p> <p>(3) Landfill equipment shall be cleaned regularly to reduce the potential for equipment fires.</p> <p>(4) Vehicle and mechanical inspections shall be performed on a regular basis, and focus on the electrical system, hydraulic, and fuel lines.</p>		--County Fire Marshal		Section 5 of Findings C#54
12.11	The permittee shall temporarily close the landfill if a fire of regional significance is located near the project area and poses an imminent threat to the safety of landfill employees.		--County Fire Marshal		Section 5 of Findings C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
12.12	A portable explosive gas detection device shall be used to determine whether the obstruction is a wellhead that may be leaking natural gas. If this is the case, all personnel shall be evacuated within a 500-foot radius and a representative from the California Department of Conservation, Division of Oil, Gas and Geothermal Resources shall be notified. Excavation activities shall cease until further instruction from the Department is received. If gas is not detected, a backhoe or similar type equipment shall be brought in to further expose the obstruction. If necessary, well abandonment procedures shall be utilized following Department protocol.	Monitor and compliance by permittee.	--Division of Oil & Gas --LEA	Throughout fill operation.	Section 5 of Findings C#7 C#52 C#54
12.13	On-site water trucks shall provide sufficient water storage and pumping capabilities to extinguish fires. Tracked dozers and scrapers shall be utilized to smother any on-site fires. Easily accessible soil stockpile areas for daily cover shall be used by landfill personnel to smother on-site fires.	Compliance with requirement by permittee.	--LEA --City & County Fire Dept.	Throughout fill operation.	Section 5 of Findings C#7 C#54
12.14	Construction of the realigned access roadway shall not exceed 15 percent in grade. An access road shall be constructed and maintained around the working area of the landfill for emergency access for fire fighting equipment.	Compliance with requirement by permittee.	--Dept. of Public Works --LEA	Throughout fill operation.	Section 5 of Findings C#7 C#54
12.15	The permittee shall implement a fire prevention plan in compliance with CCR, Title 8, § 3221. Components of this written fire prevention plan	Compliance with requirement by permittee.	--LEA --City & County Fire Dept.	Throughout fill operation.	Section 5 of Findings C#7 C#54

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	shall include potential fire hazards and their proper handling and storage procedures; potential ignition sources (i.e. welding or smoking), their control procedures, and the type of fire protection equipment or systems that can control a fire involving them; names or regular job titles of those responsible for maintenance of equipment and systems installed to prevent or control ignitions or fires; and names or regular job titles of those responsible for the control of accumulation of flammable or combustible waste materials.				
13.0	HAZARDOUS MATERIALS				
13.01	The landfill will be operated as a Class III nonhazardous landfill. The following types of waste shall be prohibited from being disposed at the landfill and shall not be accepted at the Facility: incinerator ash, sludge, radioactive material, hazardous waste, medical waste, as defined in Section 25023.2 of the California Health & Safety Code, and liquid waste, as defined in state laws and regulations, waste which contains soluble pollutants in concentrations that exceed applicable water quality objectives, and waste which could cause degradation of waters of the state as determined by the RWQCB.	Maintenance of at least one LEA inspector at the landfill for inspection and enforcement activity.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part IV
13.02	The permittee shall implement a comprehensive waste load checking program approved by the DHS-SWMP (the LEA as of the effective date of this grant) to preclude	Implementation by permittee of comprehensive Waste Load Checking Program accepted by the LEA. Maintenance of at least one	--LEA	Before opening the landfill and throughout fill operations.	Section 5 of Findings C#2 C#24 C#28

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SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>disposal of prohibited waste at the landfill, which program shall comply with the requirements of this condition and Part IV of the attached IMP and any additional requirements of the LEA, the State Department of Health Services, the State Department of Toxic Substances Control, and the RWQCB. The Program will include:</p> <p>(1) Direct visual inspection; (2) Remote television monitors to inspect incoming roll-off type loads and open top vehicles; (3) Radiation detector devices; and (4) Sensors capable of detecting volatile organic compounds to prohibit the illegal dumping or disposal of liquids and hazardous wastes at the landfill. This program shall also include inspecting random loads for hazardous wastes in a segregated area unloaded at the active working face. Hazardous waste load checks at the proposed City/County Landfill will be 1.5 load checks per 1,000 tons of solid waste received at the landfill for the first year of operation. However, after the first year of operation, the permittee may request that the LEA decrease the required load checking frequency to one load check per 1,000 tons of waste received at the City/County Landfill. Additionally, the permittee will continue to conduct employee training programs on hazardous waste detection.</p>	<p>LEA inspector at the landfill for inspection and enforcement activity.</p>			<p>IMP-Part IV</p>

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 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
13.03	Waste haulers disposing of drums at the landfill shall have drums triple-rinsed with tops and bottoms removed prior to acceptance.	Maintenance of at least one (1) LEA inspector, either a qualified employee of the LEA; or a person employed under contract to the LEA for inspection and enforcement activities other than hazardous waste exclusion.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#28 IMP-Part IV
13.04	Hazardous Materials Programs will be presented to landfill personnel during their pre-employment and during each employee's quarterly review period to address hazardous waste identification. Additionally, a slide presentation entitled "Hazardous Waste Identification and Response," along with written handouts and informal discussions, will be given to each new employee at the landfill.	Implementation by permittee of comprehensive Hazardous Materials Program accepted by the LEA.	--LEA --Facility Manager	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#28 IMP-Part IV
13.05	Procedures for the disposal of hazardous waste at permitted disposal sites will be provided to waste haulers. Signage will be posted at convenient locations on-site to notify hazardous waste haulers that hazardous waste cannot be disposed of at the landfill and to inform them of the rules and regulations governing the disposal of hazardous waste at permitted sites. Notices regarding unacceptable waste will be printed in Spanish as well as English.	Field inspections by the LEA.	--LEA	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#28 IMP-Part IV
13.06	The permittee will post a sign at the entry gate located on San Fernando Road which indicates the following:	Field inspections by LEA.	--Facility Manager	Throughout fill operations and on an ongoing basis.	Section 5 of Findings C#31

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>(1) The telephone number to contact the permittee on a 24-hour basis to register complaints regarding the Facility's operations. Said telephone number shall be published in the local telephone directory;</p> <p>(2) The telephone number of the County LEA and the hours that the County LEA is staffed; and</p> <p>(3) The telephone number of the enforcement offices of the SCAQMD and the hours when that number is attended.</p>				
13.07	An LEA inspector will be employed on-site to provide inspection of waste materials as they are disposed of at the Landfill. The permittee will compensate the LEA for any personnel, equipment and facility costs incurred in administering the SWFP for the Landfill.	Maintenance of at least one (1) inspector, either a qualified employee of the LEA or a person employed under contract to the LEA for inspection and enforcement activity other than hazardous waste exclusion.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part III
13.08	If contract inspectors are used by the County, these individuals will be deemed by the LEA to be qualified by training and experience to carry out the assigned duties and will not have a conflict of interest with the permittee.	Maintenance of at least one (1) inspector, either a qualified employee of the LEA or a person employed under contract to the LEA for inspection and enforcement activity other than hazardous waste exclusion.	--LEA	Throughout fill operations.	Section 5 of Findings C#28 IMP-Part III
13.09	During Phase I of the City Project, the permittee shall fund five (5) collection events per year to be held by the Director of Public Works for the collection of household hazardous waste and Electronic Waste, including discarded computers. After Phase I	Review and approval of hazardous waste roundups by the Board of Supervisors and the County Sanitation Districts.	--County Sanitation Districts --LEA --Facility Manager	Throughout fill operations.	C#71

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	is complete, the permittee shall fund 11 such collection events annually. The cost of each event shall be the lesser of: (1) \$100,000, adjusted annually for any increase in the Consumer Price Index (CPI) for all urban consumers in the Los Angeles, Anaheim, and Riverside areas, as published by the United States Government Bureau of Labor Statistics; or (2) the average cost for such events over the preceding 12 months, as determined by the Director of Public Works. The permittee shall make semi-annual payments for these events, on April 1 and October 1 of each year, to the Director of Public Works, which payment shall cover the cost of all collection events for the preceding six month period.				
13.10	If hazardous waste materials are discovered, emergency response shall include worker identification and notification procedures, cordoning off the area, and notifying the County LEA, Cal-EPA and DTSC. Once hazardous waste is identified, the material shall be removed, containerized, and temporarily stored on-site, if safe to handle. In the unlikely event that acutely hazardous material is discovered, the immediate area will be evacuated, and a qualified hazardous waste hauler shall be contacted for immediate collection and disposal of the material at a permitted Class I hazardous waste landfill. After any such incident within the County portion of the landfill, all necessary reports shall be completed and filed by the permittee with the following agencies: County of Los	Compliance with requirement by permittee.	--Dept. of Public Works --LEA --LACFD --RWQCB	Throughout fill operations.	Section 5 of Findings IMP-Part IV

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Angeles Office of the District Attorney, Environmental Crimes Unit; Los Angeles County Fire Department (LACFD); County LEA; and LARWQCB.				
13.11	The spill response program shall be part of required training for all facility employees. In the event of a spill, containment is paramount. All landfill employees shall be trained to use dirt and/or other absorbent materials to pick up and/or contain small spills of oils, solvents, and/or other materials that may be harmful to the public, facility workers, or the environment. Training in the use of personal protective equipment, fire extinguishing aids (e.g. hoses or extinguishers), and spill containment/mitigation (e.g. absorbents) shall be provided.	Compliance with requirement by permittee.	--RWQCB --LEA --Dept. of Public Works	Throughout fill operations.	Section 5 of Findings IMP-Part IV
13.12	Within 90 days after the Effective Date, the permittee shall install video monitoring equipment at the Facility to monitor Landfill operations at each Working Face area and at other critical locations to ensure compliance with the conditions of this grant. Copies of the video tapes shall be provided to DPH-LEA and the TAC upon request, and shall be kept and maintained at the site for one year after the taping, unless the DPH-LEA determines, at its sole discretion, that the video tapes should be kept for a longer period to protect public health, safety, or the environment.	Inspection of site recordings	--LEA --Dept. of Public Works	Throughout fill operations	Section 5 of Findings C#82

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
14.0	RECYCLING MEASURES				
14.01	In accordance with the permittee's Conditional Use Permit and prior to the opening of the landfill, the permittee will enter into an agreement with the County which provides for the implementation of on-site waste diversion and recycling measures and participation in programs implemented in association with adopted County/City SRRE's prepared pursuant to Assembly Bill 939. The permittee shall maintain on-site waste diversion and recycling facilities consistent with scope and purpose with the Agreement.	Formal agreement entered into by the County and permittee.	--LEA --Dept. of Regional Planning --County Counsel	Before the opening the landfill.	IMP-Part II IMP-Part III IMP-Part X
14.02	The permittee will not knowingly dispose of waste into the landfill which is required to be diverted or recycled. The permittee will maintain on-site waste diversion and recycling facilities consistent in scale and purpose with the provisions of the City and County Source Reduction and Recycling Elements, the County Integrated Waste Management Plan adopted pursuant to Division 30 of the Public Resources Code.	Implementation of recycling measures in accordance with City/County Source Reduction and Recycling Elements (SRRE): - Controlling and accounting for recyclable waste at the landfill consistent with City and County Waste; - Maximum utilization of landfill capacity; and - Waste diversion and recycling programs consistent with City and County waste management plans.	--LEA	Throughout fill operations.	PRC, Division 30 IMP-Part II IMP-Part III IMP-Part X
14.03	Within 90 days of the Effective Date, or a longer period if approved by the Director of Public Works, the permittee shall adopt appropriate measures to ensure that the method to determine the amount of tonnage		-- Dept. of Public Works		C#22 IMP-Part III

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	disposal on the County side of the Landfill is accurate. These measures shall include, but not be limited to: 1) requiring all solid waste haulers and other customers the permittee to submit accurate waste origin data; 2) implementing a system to verify the accuracy of the data submitted; 3) implementing a system to verify that Solid Waste reported as having originated in County unincorporated area actually has such origination; 4) adopting education and outreach programs for solid waste haulers and other customers of the permittee regarding the need for accurate waste origin data; and 5) imposing penalties on solid waste haulers and other customers of the permittee for non-cooperation with these measures, or for repeatedly providing false information regarding waste origin data to the permittee. The waste origin verification and reporting program developed by the permittee shall be approved by the Director of Public Works and the permittee shall submit the data from this program on a semi-monthly basis to the Department of Public Works for review. Based on the initial results from this program, the Director of Public Works may require the permittee to modify the program or to develop or implement additional monitoring or enforcement programs to ensure that the intent of this Condition No. 22 is satisfied.				
14.04	The permittee shall operate the Facility in a manner that maximizes the amount of solid waste that can be placed within the landfill, including, but not limited to, the following:		--Dept. of Public Works		C#19

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<p>a. Implementing methods of waste compaction, which equal or exceed compaction rates achieved at comparable landfills operating in Los Angeles County as determined by the Director of Public Works;</p> <p>b. Investigating and implementing to the extent determined by the Director of Public Works to be appropriate, methods of diverting or reducing high volume, low-density materials, which are not capable of being readily compacted;</p> <p>c. Investigating and implementing, as permitted by the appropriate regulatory agencies, methods to reduce the volume of daily cover required;</p> <p>d. Utilizing waste materials received and processed at the Facility, such as shredded green waste, as an alternative to daily, intermediate, and final cover, to the extent such usage is deemed technically feasible and proper by the appropriate regulatory agencies. Notwithstanding the preceding sentence, automobile shredder waste, contaminated soil, cement kiln dust, dredge soils, foundry sands, processed exploration waste, production waste, construction and demolition waste,</p>				

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	<p>shredded tires, and foam shall not be used daily, intermediate, or final cover at the Landfill;</p> <p>e. Recycling or otherwise diverting all Clean Dirt from disposed materials received at the Facility from off-site sources. No Clean Dirt from any source shall be disposed of at the Landfill without the prior approval from the Department of Public Works; and</p> <p>e. Utilizing on-site Clean Dirt, whenever possible, instead of imported dirt, for daily, intermediate or final cover.</p>				
15.0	SITE CONSIDERATION				
15.01	The permittee shall incorporate measures that will exceed minimum efficiency standards for Title 24 of the CCR.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.02	Built-in appliances, refrigerators, and air conditioning equipment shall exceed the minimum efficiency standards for Title 24 of the CCR.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.03	Buildings shall be well sealed to prevent outside air from infiltrating and increasing interior air conditioning and space heating loads. A performance check of the installed air conditioning and space heating systems shall	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	be completed by the permittee prior to the issuance of the certificate of occupancy to ensure the system properly operates.				
15.04	Thermal insulation that exceeds requirements established by the CCR shall be installed in walls and ceilings.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.05	Window systems shall be designed to reduce thermal gain and loss, thus reducing cooling loads during warm weather and heating loads during cool weather.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.06	Heat-reflective draperies shall be installed on appropriate exposures.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.07	Fluorescent and high-intensity-discharge lamps, which give the highest light output per watt of electricity consumed, shall be installed wherever possible, including all parking lot and site lighting to reduce electricity consumption.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.08	Occupant-controlled light switches and thermostats shall be installed to permit individual adjustment of lighting, heating, and cooling to avoid unnecessary energy consumption.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
15.09	Time-controlled interior and exterior public area lighting, limited to that necessary for safety and security, shall be installed.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.10	The permittee shall coordinate with DWP in advance to efficiently obtain potable water for delivery to the construction site and to meet any restrictions imposed.	Site facility design by permittee.	--Dept. of Public Works --County Building & Safety	Throughout fill operations.	Section 5 of Findings C#7
15.11	When reclaimed water lines are extended into the Project area, and if economically feasible, reclaimed water would be utilized on-site for irrigation and dust suppression. Prior to the submittal of design plans, the permittee shall investigate the possibility of utilizing reclaimed water at the Project site.		--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#7 C#41
15.12	<p>During the site-life of the landfill and ancillary facilities, the permittee shall effectively utilize water-conservation measures at the Project site. These measures may include the following:</p> <ul style="list-style-type: none"> The permittee shall install an efficient drip irrigation system that minimizes runoff and evaporation, and provides water distribution in an efficient manner. A dust suppression additive shall be utilized on-site to minimize water usage. Green waste/wood waste (after grinding) 		--Dept. of Public Works --LEA	Throughout fill operations.	Section 5 of Findings C#7 C#41

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	<p>shall be used on-site as mulch material for revegetation purposes. Mulch shall be applied on the top layers of revegetation areas to improve the water-holding capacity of the soil.</p> <ul style="list-style-type: none"> On-site revegetation shall include the use of water-conserving plant materials to the greatest extent possible. Use of on-site seep water for irrigation and dust control. 				
16.0	SAFETY				
16.01	All landfill equipment shall be properly maintained and operated to minimize the health and safety impacts on landfill personnel and the public. Standby equipment shall be made available during periods of vehicle maintenance or breakdown.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.02	The permittee shall implement an ILP (Injury and Illness Prevention Program) program in compliance with CCR, Title 8, § 3203, designed to protect employees from work-related hazards associated with operation of the landfill site. Unsafe or unhealthful work conditions, practices, or procedures shall be immediately corrected by the permittee.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.03	The permittee shall conduct regular periodic inspections to identify less-than-adequate or unsafe working conditions, improper or unsafe		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	work practices, or procedures in their work areas. The maintenance supervisor of permittee shall be notified of needed repairs or corrective measures using a "safety inspection report" form. Additional inspections shall be accomplished whenever new processes, procedures, substances, or equipment are introduced into the workplace or when a supervisor becomes aware of a new, potential, or previously unrecognized hazard.				
16.04	Appropriate inspection checklists shall be developed, used, and maintained to accurately reflect various exposures in different work areas. Daily observation of the workplace environment by permittee's employees, supervisors, managers, and safety director shall occur. Discrepancies shall be reported. Records of inspections, deficiencies, and corrective measures shall be maintained in the safety/maintenance offices.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.05	If a problem or discrepancy is identified, an inspection report shall be prepared. The report shall identify the priority assigned to each discrepancy, as follows: Priority One, resolve the problem immediately; Priority Two, resolve the problem by the end of the working day; Priority Three, resolve the problem within 48 to 72 hours; and Priority Four, resolve the problem within 1 week as soon as the part(s) and/or materials are available. Unsafe work practices shall be interrupted immediately by the observing supervisor. Appropriate training shall be implemented. If the unsafe practice		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	continues, progressive discipline shall be employed.				
16.06	Communication of safety and health methods to employees shall include verbal communication with employees at quarterly safety meetings; small group meetings conducted by first-line supervisors with their respective employee groups that shall be weekly "tailgate," "toolbox," or operations and safety meetings; written safety and health issues posted on employee bulletin boards; safety posters; suggestion boxes for employees to anonymously utilize; and action by management to evaluate and implement the pertinent employee safety suggestions.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.07	Accident/injury reports, inspections, and findings, including corrections and training records, shall be kept for 3 years. The OSHA Log 200 shall be retained by the permittee for a period of 5 years. Medical records for those employees involved in handling of hazardous wastes shall be maintained for a period of 30 years after employment termination.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.08	First-aid kits shall be located in dispatch, maintenance, scale houses, and corporate administrative offices, in addition to all supervisor vehicles. These kits shall contain "Band-Aids," bandages, sprays, miscellaneous ointments, and minor treatment supplies. These supplies are intended for treatment of small or nonserious cuts, burns, scrapes, etc. Injuries requiring medical attention shall be		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	treated at the Holy Cross Medical Center. This hospital shall also provide ambulance service.				
16.09	The permittee shall implement an emergency action plan in compliance with CCR, Title 8, § 3220. This plan shall designate emergency escape routes and procedures, rescue and medical duties, methods for reporting fires and other emergencies; and names of persons and departments to contact during an emergency.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.10	In compliance with CCR, Title 8, § 3314, lockout/blockout procedures shall be implemented at the landfill. Machinery or equipment capable of movement shall be stopped and the power source de-energized or disengaged; if necessary, the moveable parts shall be mechanically blocked or locked out to prevent inadvertent movement during cleaning, servicing, or adjusting operations. If the machinery or equipment must be capable of movement during this period in order to perform the specific task, the permittee shall minimize the hazard of movement by providing and requiring the use of extension tools or other methods to protect employees from injury. Prime movers, equipment, or power-driven machines equipped with lockable controls or readily adaptable to lockable controls shall be locked out or positively sealed in the "off" position during repair work and setting-up operations. The operator shall provide a sufficient number of accident prevention signs or tags and padlocks, seals, or other similarly effective means to safely		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	conduct repairs.				
16.11	Personal protective equipment shall be provided to all operations employees and will include hard hats, heavy gloves, ear plugs, dust masks, safety boots, goggles, and safety vests.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.12	The permittee shall comply with all applicable safety ordinances contained in the County Code.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.13	A portable explosive gas-detection device shall be used in trenches and excavations to determine the presence of methane gases. If unsafe concentrations of gas exist, all employees would be immediately removed from the area of unsafe gas concentration. The safety monitor would be responsible for ensuring that appropriate worker safety equipment is operable, as well as worker education and instruction correctly implemented, to prevent the potential for methane gas explosions.		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings
16.14	The permittee shall maintain perimeter fencing in and around the site in accordance with CCR, Title 14, § 17658 to discourage illegal entry to the landfill. Where existing topography conditions create an effective barrier, no perimeter fencing shall be installed. Entrance and access gates shall remain locked when the landfill facility is not in operation. All existing perimeter fencing shall be inspected		--LEA --Facility Manager	Throughout fill operations.	Section 5 of Findings

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	on a routine basis by the landfill operator, and necessary repairs shall be made to ensure a continued deterrent for unauthorized entry to the Project site. Additionally, the permittee shall maintain posted "no trespassing" signage at the exterior perimeter fencing nearest the Project site entrance.				
17.0	ADMINISTRATIVE REPORTS/PROGRAMS				
17.1	This grant shall not be effective for any purpose until the permittee, and the owner of the subject property if other than the permittee, shall file at the office of the Department their affidavit stating that they are aware of, and agree to comply with, all of the conditions of this grant, and have paid all fees and provided all deposits and security required by the conditions of this grant, including Condition Nos. 11, 15, and 72. Notwithstanding Condition 9 of this grant, the filing of such affidavit constitutes a waiver of the permittee's right to challenge any provision of this grant.		--DPR --Project Permittee	Prior to use of grant.	C#3
17.2	Prior to the operation of the City/County Project, the permittee shall obtain a Finding of Conformance with the Los Angeles County Countywide Siting Element from the Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force.		--Dept. of Public Works --Project Permittee	Prior to use of grant.	C#6

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17.3	<p>Prior to using this grant, the permittee shall submit for review and approval by the Department of Public Works a plan which establishes a program to prevent unnecessary truck trips and illegal waste disposal at the Landfill. The program shall include, but not be limited to, the following elements:</p> <p>a). A plan to schedule regular landfill users, such as commercial and municipal haulers, to avoid having these users arrive at the Facility and be diverted to other landfills; and</p> <p>b). A plan to reserve landfill capacity for small commercial and private users.</p>		--Dept. of Public Works --Project Permittee	Prior to use of grant.	C#26
17.4	<p>The subject property shall be developed, maintained, and operated in full compliance with the conditions of this grant to the satisfaction of the Director of the Department, and in full compliance with all statutes, ordinances, or other regulations applicable to any development or activity on the subject property. The permittee shall also comply with all permits, approvals, or findings issued by other government agencies or departments, including, but not limited to, the permits, approvals, or findings issued by:</p> <p>a). The County LEA and the CIWMB;</p> <p>b). The RWQCB;</p> <p>c). The SCAQMD;</p> <p>d). The California Department of Fish and Game;</p> <p>e). The United States Army Corps of Engineers; and</p> <p>f). The California Department of Health Services.</p>		--DPR --LEA	Throughout fill operations.	C#7

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17.5	Prior to the Effective Date, and thereafter on an annual basis, the permittee shall provide evidence of insurance coverage to the Department of Public Works that meets County requirements as required and approved by the CAO and that satisfies all of the requirements set forth in this Condition No. 15. Such coverage shall be maintained throughout the term of this grant and until such time as all Post-Closure Maintenance requirements are met by the permittee and are certified by the appropriate local, state and federal agencies. Such insurance coverage shall include, but shall not be limited to, the following: general liability, automobile liability and pollution liability, clean-up cost insurance coverage and an endorsement for "Sudden and Accidental" contamination or pollution. Such coverage shall be in an amount sufficient to meet all applicable state and federal requirements, with no special limitations.		--Dept. of Public Works --CAO	Prior to use of grant.	C#15
17.6	In order to ensure that there will be sufficient funds at Closure to provide for the continued payment of insurance premiums for the period described in Condition Nos. 15 and 32 of this grant, within 60 months prior to the anticipated Closure Date, and annually thereafter, the permittee shall provide financial assurance satisfactory to the CAO and the Department of Public Works showing its ability to maintain all insurance coverage and indemnification requirements of Condition Nos. 13, 14, and 15 of this grant. Such financial assurance shall		--Dept. of Public Works --CAO	60 months prior to closure.	C#16

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	be in the form of a trust fund or other financial instrument acceptable to the County.				
17.7	In the event the City/County Project becomes operational, this grant shall terminate either on the date that the landfill reaches its Limits of Fill for the City/County Project, or 30 years from the Approval Date, whichever occurs first. At least six (6) months prior to the 25 th anniversary of the Approval Date, if the permittee has not exhausted the available landfill capacity within the Limits of Fill depicted on Exhibit "A-2," the permittee shall conduct a study to determine the remaining capacity of the landfill. The study shall be submitted to the TAC for its independent review and, upon its review, the TAC shall report to the Board its finding regarding the remaining capacity of the landfill as authorized by this grant. Upon consideration of TAC's finding, the Board shall establish a certain Termination Date for the landfill, but in no event shall the Termination Date be a date that is later than 30 years after the approval date.		--Dept. of Public Works	6 months prior to 25 th year of combined City/County Project.	C#17
17.8	In the event the City/County Project does not become operational, the Termination Date of this grant shall be the date the Landfill reaches the Limits of Fill for the County Project, as that date is set forth in the Closure and Post-Closure Maintenance Plans in effect at that time.		--Dept. of Public Works	Upon termination of the grant.	C#17

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	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
17.9	Upon the Termination Date, either when operating as a County Project or as a City/County Project, as the case may be, the Facility shall no longer receive Solid Waste and/or Beneficial Use Materials for disposal or processing; however, the permittee shall be authorized to continue operation of any and all facilities of the landfill as are necessary to complete: (1) the mitigation measures required by this grant; (2) the Closure and Post-Closure Maintenance required by federal, state, and local agencies; and (3) all monitoring and maintenance of the Environmental Protection and Control Systems required by Condition No. 32. No later than six months after the Termination Date, all landfill facilities not required for the just-mentioned functions shall be removed from the subject property, unless they are allowed as a matter of right by the zoning regulations then in effect.		--DPR --LEA	Upon termination of grant.	C#17
17.10	During the term of this grant, fill sequencing plans for landfilling operations within the County's jurisdiction shall be first approved by the Director of Public Works to ensure consistency with the purpose of Condition 18.		--Dept. of Public Works --LEA	Throughout fill operations.	C#18

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
17.11	<p>Prior to commencement of the City/County Project, no portion of the landfill may extend beyond the limits of fill shown on Exhibit "A-1," except that during the City Project, the landfill may be extended beyond the limits shown on Exhibit "A-1" into the "Bridge Area," subject to the following limitations: (1) permittee shall not accept any waste into the "Bridge Area" until a fill sequencing plan is approved by the Director of Public Works; (2) at least 50 percent of the cumulative total waste accepted by both the City Project and County Project measured on an annual basis shall be deposited on the City side; (3) the horizontal extension of the landfill "Bridge Area" shall be restricted to an area not to exceed 20 acres; and (4) the permittee has shown to the satisfaction of the Director of Public Works that 1 through 3 in this subsection have been met, and that landfill operations in the Bridge Area are necessary for the efficient operation of the eventual City/County Project.</p> <p>Upon commencement of operation of the City/County Project, the limits of fill shown on Exhibit "A-2" shall constitute the boundaries of the landfill.</p>		--Dept. of Public Works --LEA	Throughout fill operations.	C#18
17.12	<p>If the City of Los Angeles denies the permittee's request to complete any of the phasing designs specified in the City approval granted in the City Ordinance Condition B.2.d, the permittee shall thereafter exclude all waste collected within the corporate limits of the City</p>		--Dept. of Public Works	Throughout fill operations.	C#19

SUNSHINE CANYON LANDFILL
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 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	and transported in trucks under contract with the City from any portion of the landfill within County territory. This exclusion shall continue in effect unless and until terminated by the County.				
17.13	The permittee shall notify the County at least 60 days prior to the adoption of any amendment to the City Ordinance or other agreement or instrument between the permittee and the City that may impact the disposal capacity of the County Project or the City/County Project, or any condition of this grant. Copies of such amendment, agreement, or instrument shall be provided to the Los Angeles County Counsel, the Directors of the Department and the Department of Public Works, and to the County LEA.		--County Counsel --Dept. of Public Works	Throughout fill operations.	C#19
17.14	The permittee shall submit to all interested County departments and agencies, including County Counsel, the Department of Public Works, the Department, and the County LEA, copies of all agreements entered into between or among the permittee, the City, and/or the County, including, but not limited to, any memorandum of understanding ("MOU"), development agreement, JPA, or other instrument that: a). Establishes a joint powers authority or other entity or arrangement that requires collaboration between the parties on the permitting, inspection and enforcement of the City/County Project. The County LEA proposes to be designated as the lead agency		--Dept. of Public Works --LEA --County Counsel	Throughout fill operations.	C#20

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>in any JPA or similar agreement for the City/County Project for all SWFP activities and the single point of contact for coordinating all permitting, inspections and enforcement activities at the Facility. The actual responsibility for these functions shall be as set forth in the JPA or similar agreement;</p> <p>b). Establishes the City's and County's respective rights to use the Facility and/or establishes the allocation of landfill capacity or disposal fees between the City and County;</p> <p>c). Establishes franchise fees, landfill gas revenues or other fees payable to the City, or bond and/or security arrangements with the City;</p> <p>d). Establishes and environmental education or community amenities program;</p> <p>e). Amends the City's approval of the Facility in connection with either the City Project or the City/County Project; or</p> <p>f). Amends the City's Mitigation Reporting and Monitoring Program for the Facility.</p> <p>In addition to any other penalty provided by this grant or by law, the failure of the permittee to comply with this Condition No. 20 shall result in any and all penalties described in Condition No. 11.</p>				
17.15	<p>The permittee shall prepare and distribute to all interested persons and parties, as shown on the interested parties list used by the Department for this matter, and to any other person requesting to be added to the list, a quarterly newsletter providing the Facility's website and its 24-hour emergency telephone</p>		<p>--Dept. of Public Works</p>	<p>Throughout fill operations.</p>	<p>C#79</p>

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FSEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	numbers, and also providing the following information for the quarter: 1) "What is New" at the site; 2) the regulatory and permitting activities at the site; 3) the hotline/emergency log for the period; and 4) a summary of any and all progress reports and/or annual reports required by this grant. The newsletter shall be posted on the Facility's website and distributed to at least one local library.				
17.16	<p>The Permittee shall conduct air quality monitoring at the Facility and its surrounding areas. In addition, an independent air quality consultant selected by the TAC shall conduct at least four random tests per year of Landfill dust and diesel particulates surrounding the perimeter of the Facility to determine whether air quality near the Landfill is consistent with the supporting environmental documentation for the City Project (i.e., the City's Final Supplemental Environmental Impact Report or "FSEIR"). The consultant review shall place added emphasis on the area south of the Landfill above the nearby residential community. The cost of the consultant and the tests shall be borne entirely by the Permittee. The consultant report shall be provided to the Director of the Department, the TAC and the Permittee within 15 calendar days after completion of the tests.</p> <p>If any of the test results are inconsistent with the FSEIR as described in the consultant report, the Permittee shall submit a corrective action plan to the TAC within 15 days after</p>		--LEA --SCAQMD --Dept. of Public Works	Throughout fill operations or as determined by the director.	C#81

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
<p>receipt of the report to set forth a schedule for remedial action. The TAC shall consider the corrective action plan within 30 calendar days of its receipt and provide notice to the Permittee if such plan has been approved. If the TAC does not approve the corrective action plan, the Director of the Department may impose additional or different measures to reduce air quality impacts at the Facility. These additional measures may include requirements that the Permittee: (1) pave additional unpaved roads at the Facility; (2) water and apply soil sealant to additional Working Face areas; (3) relocate Working Face areas to designated locations during windy conditions; (4) monitor sensitive sites throughout the community; and/or (5) close the Facility during extreme wind conditions. The Permittee may appeal the Director's decision in accordance with the appeal provisions in Condition 11 for an appeal of a notice of violation.</p> <p>The Director of the Department, with the advice of the TAC, may reduce the frequency of the consultant testing, or discontinue it altogether, if the Director finds that the test results are invalid or lack beneficial value.</p> <p>In addition to the consultant's other duties under this Condition No. 81, within one year after the Effective Date, the consultant shall conduct testing of landfill gas, dust, and diesel particulates at Van Gogh Elementary School, and based on these results, shall project emissions for the development of the Landfill,</p>				

SUNSHINE CANYON LANDFILL
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 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>and shall conduct on-site monitoring of these emissions consistent with SCAQMD rules and regulations. The test results and mitigations measures, if any, shall be submitted to SCAQMD and the TAC for evaluation and approval.</p> <p>Notwithstanding the above, the TAC may rely upon the information and reports developed in compliance with the City's air quality requirements of Condition C.10.a of the City Ordinance, provided that such information and reports and their background data and analysis are deemed acceptable by the TAC to satisfy the intent of this Condition No. 81.</p>				
17.17	<p>Annual Reports</p> <p>The permittee shall prepare and submit an annual monitoring report to the Department of Regional Planning (DRP) by June 1 of each year during the operation of the landfill. At least 60 days before the due date, draft copies of the report shall be submitted to the following for review and comment:</p> <ol style="list-style-type: none"> 1). DHS-SWMP; 2). Director of Public Works; 3). Los Angeles County Forester and Fire Warden; 4). Los Angeles Regional Water Quality Control Board; 5). South Coast Air Quality Management District; 6). County Museum of Natural History; 7). County Community Advisory Committee 	Annual Report of Compliance	--DPR --Dept. of Public Works --LEA	Throughout fill operations.	IMP-Part X

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	Each referral shall include a request that comments be sent to the permittee within 30 days of receipt of the draft report, but not later than 15 days before the due date of the final report. The permittee shall provide documentation of each referral to the Director of Regional Planning in a form acceptable to the Director. The permittee shall respond to each comment received and shall include each comment and response with the final report submitted to the DRP. A copy of the final report shall be provided to the local County library and posted on the permittee's website.				
18.0	LANDFILL OPERATIONS				
18.1	Weekly Tonnage Capacity Subject to the daily tonnage limit set forth in subsection II below, when operating as a City/County Project, the amount of all materials received by the landfill, including Solid Waste, Inert Debris and Beneficial Use Materials, shall not exceed 66,000 tons per week, and the amount of Inert Debris and Beneficial Use Materials shall not exceed 6,600 tons per week.		--LEA --Dept. of Public Works	Throughout fill operations.	C#21
18.2	City/County Project When operating as a City/County Project, the daily tonnage capacity of all materials received by the landfill, as described in subsection I		--LEA --Dept. of Public Works	Throughout fill operations.	C#21

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	above, shall not exceed 12,100 tons on any given day, six working days per week, in either jurisdiction (based on the permitted maximum intake rate of 5,500 tons per day in the City and the permitted maximum intake rate of 6,600 tons per day in the County).				
18.3	<p>Weekly Tonnage Capacity</p> <p>Subject to the daily tonnage limit set forth in subsection II below, when operating as a County Project, the amount of all materials received by the landfill on the County side of the landfill, including Solid Waste, Inert Debris and Beneficial Use Materials, shall not exceed 39,600 tons per week, where the amount of Solid Waste that may be deposited in the Landfill for disposal shall not exceed 36,000 tons per week, and the amount of Inert Debris and Beneficial Use Materials shall not exceed 3,600 tons per week.</p>		--LEA --Dept. of Public Works	Throughout fill operations.	C#21
18.4	<p>Daily Tonnage Capacity</p> <p>When operating as a County Project, the daily tonnage capacity of all materials received by the landfill, as described in subsection I above on the County side, shall not exceed 7,200 tons per day; provided, however, that the amount of Solid Waste disposed of in the Landfill on the County side shall not exceed 6,600 tons per day.</p>		--LEA --Dept. of Public Works	Throughout fill operations.	C#21

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
18.5	The permittee shall not receive any Solid Waste for disposal in the Landfill originating outside of Los Angeles County.		--LEA --Dept. of Public Works	Throughout fill operations.	C#78
18.6	The permittee shall not negligently or intentionally deposit Solid Waste into the Landfill which is required to be diverted or recycled in accordance with City and County Source Reduction and Recycling Elements of the County Integrated Waste Management Plan adopted pursuant to Division 30 of the Public Resources Code, and/or the Waste Plan Conformance Agreement approved by the Board on June 26, 1996, between the County and permittee pursuant to CUP 86-312-(5), as those documents and agreements may be amended.		--LEA --Dept. of Public Works	Throughout fill operations.	C#24
18.7	The permittee shall remove all graffiti in public view on public buildings and structures at the Facility within 48 hours of its placement. The permittee shall also establish and maintain a graffiti deterrent program approved by the DPH-LEA and submitted to the Graffiti Abatement Section of the Department of Public Works.		--LEA --Dept. of Public Works	Throughout fill operations.	C#80
18.8	In the event that material suspected or known to be prohibited waste is discovered at the Facility, the permittee shall: a). Detain the driver and obtain his/her driver's license and vehicle license number if the vehicle that delivered the waste is still on-site;		--LEA	Throughout fill operations.	C#28

SUNSHINE CANYON LANDFILL
MITIGATION MONITORING AND REPORTING SUMMARY
 Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)

	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
	<p>b). Immediately notify all appropriate state and County agencies, as required by federal, state, and local law, and implementing regulations;</p> <p>c). If possession of the material is not immediately removed by a public official, store the material at an appropriate site designated by the State Department of Health Services and the RWQCB until it is disposed of in accordance with applicable state regulations;</p> <p>d). Maintain a manifest of the prohibited waste to be part of the permittee's annual report under the IMP, and to include, at a minimum, the following information:</p> <ul style="list-style-type: none"> i. A description, nature, and quantity of the prohibited waste. ii. The name and address of the source of the prohibited waste, if known; iii. The quantity of total prohibited waste involved; iv. The specific handling procedures used; and v. A certification of the authenticity of the information provided. 				
18.9	<p>The permittee shall at times, Monday through Saturday, maintain adequate on-site staff, with appropriate training and experience for the operation of the Facility. The staff's qualifications and level of experience shall be subject to approval of the County LEA, which may, in its discretion, establish minimum training requirements for designated positions at the Facility. All on-site staff shall be familiar with the conditions of this grant.</p>		<p>--LEA --Dept. of Public Works</p>	<p>Throughout fill operations.</p>	<p>C#30</p>

<p style="text-align: center;">SUNSHINE CANYON LANDFILL MITIGATION MONITORING AND REPORTING SUMMARY Conditional Use Permit 00-194-(5) and Oak Tree Permit 86-312-(5)</p>					
	SEIR/FEIR MITIGATION MEASURE	MONITORING ACTION	RESPONSIBILITY	TIMING	REFERENCE
18.10	The permittee shall at all times, Monday through Saturday, maintain adequate staff at the Facility to promptly respond to and correct dust, litter and other operational complaints from the surrounding neighborhood. In addition to any other requirement of this grant regarding community complaints, the permittee shall maintain a hotline/emergency log at the site which shall record all complaints received regarding Landfill operations, the permittee's follow-up action to the complaints, and their final resolution.		--LEA --Dept. of Public Works	Throughout fill operations.	C#49
18.11	The permittee shall at all times, 24 hours a day, seven days a week, maintain at least one staff person on-site with sufficient expertise to assess the need for remedial action regarding complaints or operation-related accidents, and with the requisite authority and means to assemble the necessary resources to take such remedial action. The individual must be able to be reached on a continuous basis by the telephone number posted at the landfill entry gate.		--LEA --Dept. of Public Works	Throughout fill operations.	C#50
18.12	Within 90 days after the effective date of this grant, the permittee shall develop best available methods or procedures to prevent vehicles leaving the Facility from carrying dirt and/or debris on to local streets or highways.		--LEA --Dept. of Public Works	Throughout fill operations.	C#47

ATTACHMENT 5

LOS ANGELES COUNTY CIWMP CONFORMANCE FINDING

The County of Los Angeles completed their County Integrated Waste Management Plan (CIWMP) in June 1997. SCL has been included in the countywide siting element within the CIWMP.

**EXCERPTS FROM
LOS ANGELES COUNTY INTEGRATED WASTE MANAGEMENT PLAN
SITING ELEMENT**

LOS ANGELES COUNTY



**COUNTYWIDE
SITING
ELEMENT**

**VOLUME I -
THE ELEMENT**

Los Angeles

County

Department of

Public Works

Environmental

Programs Division

June 1997

3.4.1 Class III Landfills

In 1995, the CSE's base year, there were eleven major Class III landfills (excluding Sunshine Canyon landfill that was permitted in 1995 but not fully developed) and in operation. These landfills were:

- Antelope Valley
- Azusa Land Reclamation
- BKK
- Bradley
- Calabasas
- Chiquita Canyon
- Lancaster
- Lopez Canyon
- Puente Hills
- Scholl Canyon
- Spadra
- Sunshine Canyon (not operational in 1995 - permitted but not fully developed)

A detailed Fact Sheet and Map of each major Class III landfill facility is provided in Section 3.5, Tables 3-1 through 3-13 and Figures 3-1 through 3-13.

A portion of the total waste generated in Los Angeles County is disposed in six minor Class III landfills (including Two Harbors Landfill that closed in September 1995). These are:

- Brand Park (City of Glendale Public Works use only)
- Burbank (City of Burbank use only)
- Pebbly Beach, Santa Catalina Island
- San Clemente, U.S. Navy Facility, San Clemente Island
- Savage Canyon (City of Whittier waste only)
- Two Harbors, Santa Catalina Island (facility closed September 1995)

A detailed Fact Sheet and a Map of each minor Class III landfill facility is provided in Section 3.5, Tables 3-1, and 3-14 through 3-19, and Figures 3-1, and 3-14 through 3-19.

By January 1997, there were only nine major and five minor Class III landfills in operation. Two Harbors Landfills closed in September 30, 1995, Lopez Canyon Landfill ceased operations in July 1, 1996, BKK Landfill in West Covina closed on September 15, 1996, Azusa Land Reclamation Landfill ceased disposal of non-inert solid waste on October 5, 1996, and Sunshine Canyon Landfill began operations on August 5, 1996.

The necessary applications and/or environmental documents regarding the future expansion of the facility have not been submitted by the County Sanitation Districts of Los Angeles County.

- **Scholl Canyon Landfill Expansion**

The Scholl Canyon Landfill is located north of the Ventura Freeway in the City of Glendale and is owned by the City of Glendale and the County of Los Angeles. The Landfill is operated by the CSD under a Joint Powers Agreement between the City, the County, and the CSD.

Based on the land use permit issued by the City of Glendale in 1978, it is estimated that this permitted capacity will be exhausted by the year 2014 based on an average disposal rate of 1,850 tpd, six days a week. At the exhaustion of the current permitted capacity, approximately 6 million tons of potentially available capacity would remain at the site. The expansion of the Scholl Canyon Landfill has been recognized in the Joint Powers Agreement governing the operation of the site. However, the CSD has not proposed a definite expansion design plan.

- **Sunshine Canyon Landfill Expansion**

BFI, owner/operator of the facility, is proposing an expansion of the existing Landfill into the City of Los Angeles portion of Sunshine Canyon as well as in the unincorporated County portion.

The proposed project would consist of a horizontal expansion on the City side, and vertical expansions of the currently closed City site and the recently approved County site. The expansion, if approved, will provide approximately 75 million tons (105 million cubic yards at an in-place density of 0.7125 tons per cubic yard) of additional capacity and would increase the facility's daily capacity to 11,000 tons.

The proposed project requires land use approval from the City of Los Angeles. No additional approval is required for the County side if the proposed expansion does not extend beyond the horizontal and vertical limits of the disposal area stipulated in the existing CUP.

An application has been filed with the City of Los Angeles for the proposed expansion and the draft EIR is currently under preparation.

SUNSHINE CANYON LANDFILL EXPANSION

FACT SHEET

1. FACILITY TYPE

Class III

2. LOCATION

14747 San Fernando Road, Sylmar, CA 91342

The existing facility is located in the unincorporated area of Los Angeles County. The proposed expansion will utilize areas within the City of Los Angeles and the County unincorporated area.

3. SIZE

Proposed Disposal Area: 185 acres

Total Acreage of Site: 494 acres

4. VOLUMETRIC CAPACITY

Daily: 11,000 tons [15,439 cubic yards]

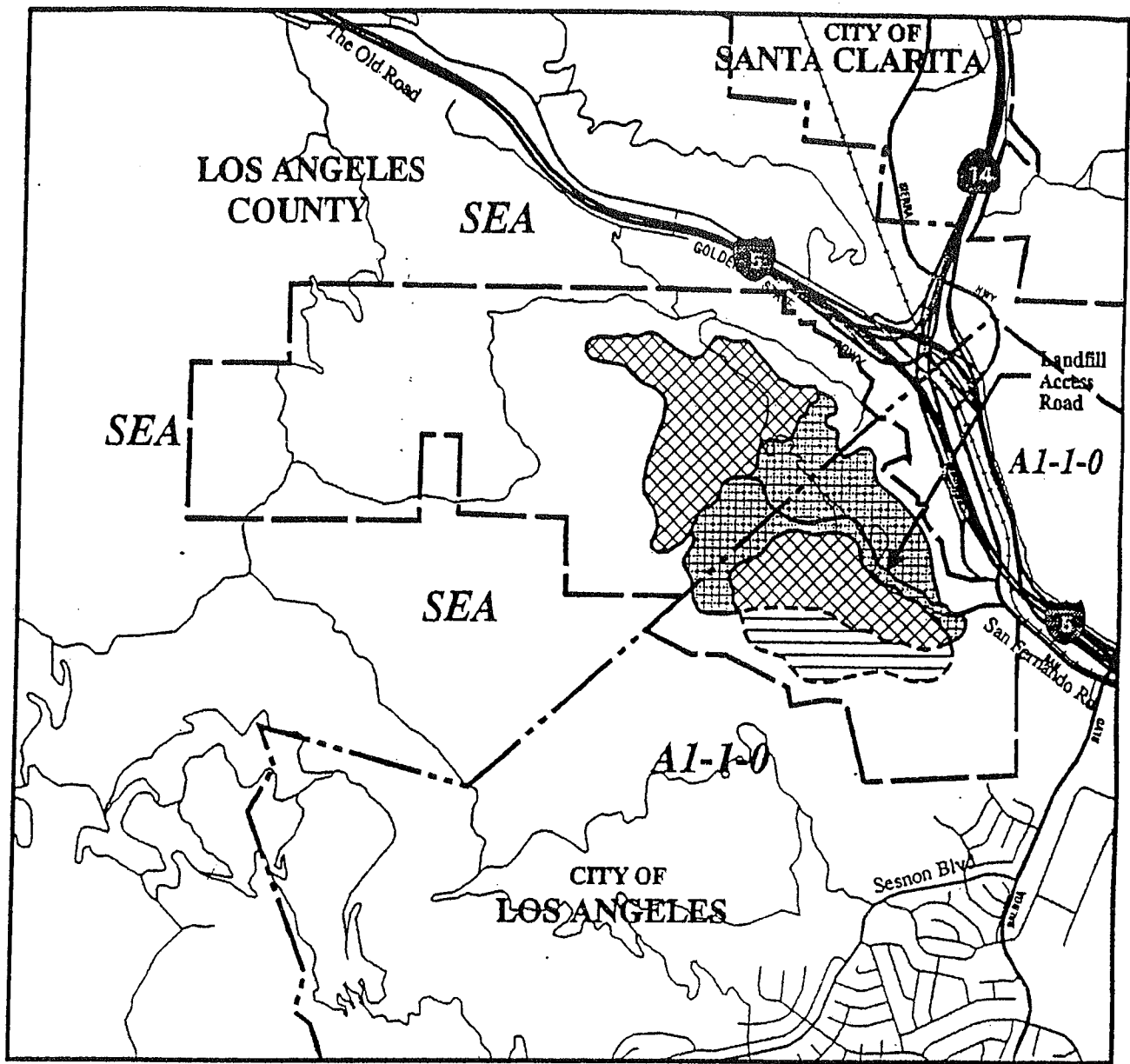
Yearly Equivalent: [3.4 million tons] [4.77 million cubic yards]

Facility Capacity: 75 million tons [105 million cubic yards]








In-Place Density: 0.7125 tons/cubic yard

5. LIFE EXPECTANCY - 22 years based upon 11,000 tpd, 6 days per week6. OWNER/OPERATOR - Browning-Ferris Industries of California, Inc.7. EXPANSION OPTIONS - no additional expansion is proposed8. POST-CLOSURE USES - open space

Note: Calculated or assumed quantities are shown in brackets.



LEGEND

- | | | | |
|---|---|---|--------------------------|
|  | Closed Disposal Area |  | Limits of Closed Areas |
|  | Potential Expansion Over Existing County or Closed City Disposal Area |  | Limits of Disposal Areas |
|  | Potential Expansion |  | Property Boundary |
| | |  | City Limits |



SCALE 1" = 3000'

SEA: Significant Ecological Areas

Los Angeles County General Plan Land Use Policy# LU-1, 11/1980

A1-1-0: Agricultural, Height District No.1, Oil Drill Zone, City of Los Angeles Zoning Map

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SUNSHINE CANYON LANDFILL EXPANSION

Los Angeles County Countywide Siting Element

Figure 7-9

ATTACHMENT 6

COMPLETE PDF COPY OF AMENDED JOINT TECHNICAL DOCUMENT