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October 23, 2012

U.S. EPA, Region 6 Compliance Assurance and Enforcement Division Water Enforcement Branch (6EN-WC) 1445 Ross Avenue Dallas, TX 75202-2733

RE: National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit No. NMS000101 – Storm Water Management Program (SWMP)

To Whom It May Concern:

This submittal by the University of New Mexico (UNM) includes an updated SWMP as required by Page 6, Part I, Subpart C, Item 1 of the NPDES MS4 Permit No. NMS000101.

If you need additional information or have questions, please contact Carla Domenici, Interim Director, Safety & Rsik Services at (505) 277-9794 (e-mail <u>cprando@salud.unm.edu</u>).

CERTIFICATION STATEMENT

As required by Parts III.I and IV.H of the NPDES MS4 Permit No. NMS000101, the undersigned representative of UNM is certifying the preparation of an updated Storm Water Management Program (SWMP), in accordance with specifications listed within the permit.

"I, David W. Harris, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation."

David W. Harris, VP for Administration, CFO & COO, UNM

Date

Date

Carla P. Domenici, Interim Director, Safety & Risk Services, UNM

CY w/o enclosures:

Nelly Smith, Environmental Protection Agency Brent Larsen, Environmental Protection Agency Diana McDonald, Environmental Protection Agency William K. Honker, Acting Division Director, EPA, Region 6, Water Quality Protection Division James Hogan, Acting Bureau Chief, New Mexico Environment Department, Surface Water Quality Bureau Jerry Lovato, Executive Director, AMAFCA Tamara Haas, District Engineer, New Mexico Department of Transportation Michael Riordan, Director, Department of Municipal Development, City of Albuquerque Chris Vallejos, Vice-President, Institutional Support Services Staff, UNM Erin Doles, Administrative Professional & Support Services, UNM Hospital Kevin Rogols, President & CEO, Sandoval Regional Medical Group Robert Fondino, Chief Budget & Finance Officer, HSC Facilities, UNM Paul Krebs, Vice-President, Athletics, UNM Wynn Goering, Special Assistant Branch Affairs, Office of the President, UNM

University of New Mexico Storm Water Management Program (SWMP) FOR NPDES Permit # NMS000101 Effective March 1, 2012

Introduction

The University of New Mexico (UNM) and its three storm water partners were issued their first NPDES Municipal Separate Storm Sewer System (MS4) permit on December 1, 2003. The other partners are the City of Albuquerque (CABQ), the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) and the New Mexico Department of Transportation (DOT). That permit expired in November 2008 and was extended administratively by the EPA until EPA issued a renewal permit on January 31, 2012 which became effective March 1, 2012. Each of the four MS4 partners is preparing an individual Storm Water Management Program (SWMP). This document is the plan for UNM. This SWMP has been prepared in accordance with the permit Part I; C.

Expiration Date

The current MS4 permit is scheduled to expire the earlier of ninety days following the effective date of a watershed-based permit for the regulated Middle Rio Grande MS4s in the Albuquerque area or at midnight on February 28, 2017. This SWMP will continue for the duration of the Phase I MS4 permit.

General Requirements

This SWMP is in compliance with Permit NMS000101 and with Section 402(p)(3)(B) of the Clean Water Act and the Storm Water regulations (40 CFR 122.26 and 122.34).

Legal Authority

UNM has the legal authority to set and enforce policy regarding discharges to its storm drainage system.

Shared Responsibility

The Albuquerque MS4 partners are preparing a Memorandum of Understanding that will define the various responsibilities that each partner has to the other. Generally, the responsibility for implementation of storm water controls is based on property ownership. For example, UNM is responsible for storm water controls on its campus, but not outside of its campus. AMAFCA and CABQ share a common responsibility for the operation of the flood control and storm water quality system as the areas of responsibility that have large areas of overlap. The Albuquerque MS4 is mapped with AMAFCA and CABQ having primary responsibility of different channels and arroyos.

UNM does not discharge directly into the Rio Grande River. Rather storm water runoff from the Albuqueque UNM Campuses discharges into CABQ and AMAFCA storm drain systems. Additionally, UNM has recently began to develop land west of University Blvd. NE, north of Lomas Blvd. NE, west of Interstate 40 and south of Indian School Road NE (a.k.a. "Lands West"). The outfall for Lands West is the Odelia Pond, a storm water detention facility owned, operated and maintained by CABQ.

Measurable Goals

This SWMP includes measurable goals as stated in Part I.C.5 "Control Measures" including interim milestones indicating the months and years when certain actions will take place.

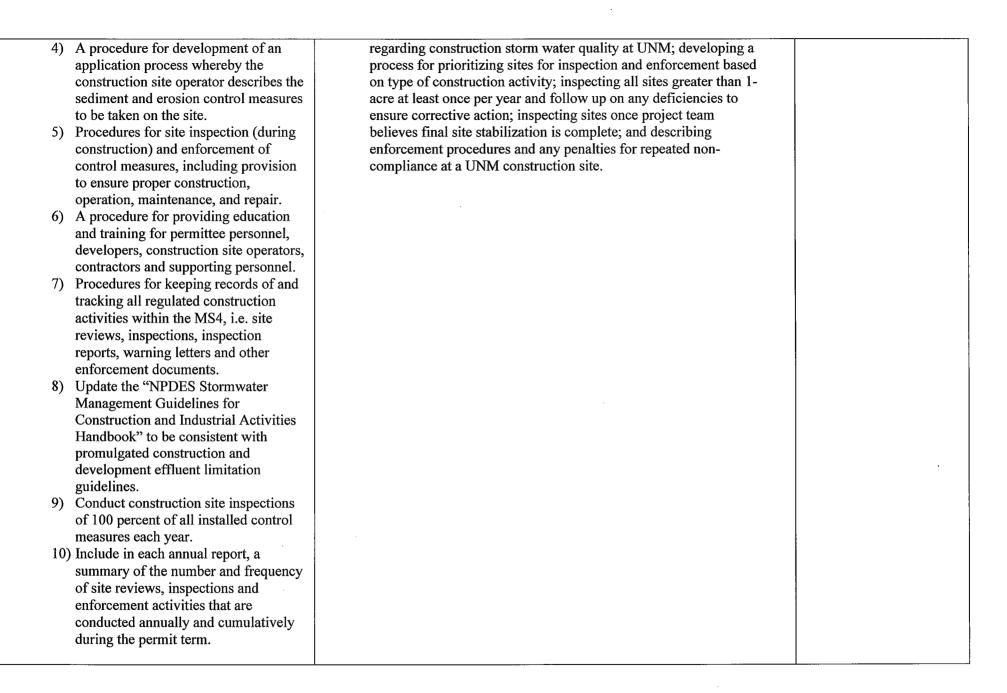
Material changes to the SWMP, including changes to any BMP activities or identified measurable goal will be mentioned in annual reports to the EPA. Pending changes to UNM's SWMP that impact other Phase 1 MS4 co-permittees will be discussed and negotiated with the EPA and with the co-permittees while UNM remains a Phase 1 MS4 co-permittee. The SWMP will be evaluated annually by UNM's Safety & Risk Services (SRS) Department. The annual review will evaluate implementation status of SWMP components and the effectiveness when more effective approaches are discovered. Should this review indicate the need for revision, any significant revisions will be provided to the EPA for comment and will be identified in the Annual Report. Specifically, for the University, these changes may also include changes in roles and responsibilities of co-applicants, including interagency agreements developed for MS4 permitting purposes.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROLS

 A. As described in Part I.C.5.a, the permitter shall, in the construction Site Stormwater Runoff Control Program, scordinate all unk have a role in construction activities at UNM to ensure proper controls are inplace to eliminate erosion and report by paper and the panning, review, permitting, or approval of public and private construction activities within the permit area to ensure the the program controls or eliminates economic (i.e., erosion control plan, SWPP/eNOI paplication and include in the SWM end description of the mechanism(s) utilized to comply with each of the following element: I) An ongoing program to assess, implement, and enforce the existing program to construction activities that result in a laddress stormwater runoff from construction sties or (1) acre. A procedure or system to review, update, and/or enact an ordinance(s) or other appropriate legal authority mechanism, that address stormwater runoff from constructions sites and performance (O). A procedure or system to review, the application and properly dispose of wastes. Procedures for review wates and properly dispose of wastes. Procedures for review of all site plans and pre-construction review meetings that consider stormwater controls or management practices of potential water quality impacts and public projects greater than or eagend to review, and public projects greater than ore acre. The leadership of UNM's Offices of Capital Projects (CCP) & the UNM Mwill include a summary of regulated constructions attes and properly singulated and source (C) acre. Procedures for review of all site plans and pre-construction review meetings that consider stormwater controls or management practices of potential water quality impacts and onsure consistency with local and State Procedures of review of all site plans and pre-construction store or and state properview of the alice plans and pre-construction store or potential water qua	Permit Activity	Proposed Plan	Measurable Goal
 shall, in the construction Site Stormwater Runoff control Program, coordinate all departments and boards with jurisdiction over the planning, review, permitting, or approval of public and private construction activities within the permit area to ensure that the program controls or eliminates erosion and maintains sediment on site. The program shall address stormwater management during construction and include in the SWMP a description of the mechanism(s) utilized to comply with each of the following element: 1) An ongoing program to assess, implement, and enforce the existing program to control stormwater discharges from construction activities that result in a land disturbance of greater than or equal to one (1) acre. 2) A procedure or system to review, update, and/or enact an ordinance(s) or other appropriate legal authority mechanism, that addresses stormwater runoff from construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form construction stice operators to implement an erosion and sediment control form constructions tice operators to implement an erosion and sediment control form constructions tice operators to implement an erosion and sediment control form constructions tice operators to implement an erosion and sediment control form constructions tice operators to implement an erosion and sediment control ton tow we meetings that consi			Measurable Goai
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	 management during construction and include in the SWMP a description of the mechanism(s) utilized to comply with each of the following element: An ongoing program to assess, implement, and enforce the existing program to control stormwater discharges from construction activities that result in a land disturbance of greater than or equal to one (1) acre. A procedure or system to review, update, and/or enact an ordinance(s) or other appropriate legal authority mechanism, that addresses stormwater runoff from constructions sites one (1) acre or greater, to require developers and construction site operators to implement an erosion and sediment control program, control waste and properly dispose of wastes. Procedures for review of all site plans and pre-construction review meetings that consider stormwater controls or management practices of potential water quality impacts and ensure 	 departments will continue to oversee UNM contractors to insure that they comply with federal law, municipal ordinance and contractual provisions implement a Stormwater Pollution Prevention Plan (SWPPP). SRS and its sister departments will continue to review site plans and attend pre-construction review meetings to try to ensure consistency with applicable storm water quality requirements. The plan review must occur prior to construction and focus on construction and post-construction storm water quality measures that address likely impacts and public concerns. Site plan review must include evaluation of opportunities for incorporating green infrastructure (GI). UNM will continue to comply with the Construction General Permit (CGP), including SWPPP preparation and eNOI application for all public projects greater than one acre. The leadership of UNM's Office of Capital Projects (OCP) & the UNM Physical Plant Department (PPD) will be engaged by SRS in the development of UNM's SWMP. Once the SWMP is finalized, training on the SWMP and general storm water pollution prevention (P2) basics will be offered. UNM will continue its procedures for construction project record-keeping, including, site reviews, inspections, inspection reports, any enforcement letters & documents. 	 participate in the revision/update of the local "NPDES Storm Water Management Guideline for Construction and Industrial Activities Handbook". UNM will include a list of training in the Annual Report. UNM will include a summary of regulated construction activities in

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POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND RE-DEVLEOPMENT

	mit Activity	Proposed Plan	Measurable Goal
	As described in Part I.C.5.b , the permittee	UNM will propose design review and construction punch-list procedures	
	shall, in the Post-Construction Stormwater	to assure that storm water quality controls are incorporated into all new	Submit draft policies,
	management in New and Redevelopment	development and re-development for projects disturbing more than 1-	procedures,
	Program, coordinate all departments and boards	acre or for projects disturbing less than 1-acre that are part of the larger	guidelines, protocols
	with jurisdiction over the planning, review,	common plan for development of the campus.	regarding Storm
	permitting, or approval of public and private		Water Quality upon
	new development and redevelopment	UNM will propose the development of contractual procedures to ensure	completion.
	projects/activities within the permit area to	implementation of the SWMP in UNM development and redevelopment	Provide discussion of
	ensure the hydrology associated with new	projects.	education and
	development and redeveloped sites mimic the		outreach activities
	pre-development hydrology of the previously	UNM will assess facility planning and design procedures to identify	geared toward LID
	undeveloped site. The program shall address	impediments for the incorporation of GI/LID approaches including	implementation in the
	post-construction stormwater management and	infiltration, recharge, water harvesting, habitat improvement and/or	Annual Report.
	include the following elements in the SWMP:	hydrological management to improve post-construction storm water quality.	Submission of
	1) Procedure or system to review and update,		cumulative changes
ĺ	as necessary, the existing program to ensure	UNM will work to develop and adopt policy and enforcement mechanisms for	in UNM's Storm
	that storm water controls or management	requiring capture of 90 th percentile (0.44-inch) storm events.	Water Management
	practices for new development and		Program in the
	redevelopment practices/activities	UNM will work to develop and adopt design standards, including	Annual Report.
	disturbing greater than or equal to one (1)	methodology, to estimate water quality impacts and selection of controls.	-
	acre, including projects less than (1) acre		Estimation of campus
	that are part of a lager common plan of	UNM will calculate and update an estimate of acreage of impervious areas	IA and DCIA
	development or sale, continue to meet the	(IA) and directly connected impervious areas (DCIA). In the first annual	removed or added in
	requirements and objectives of the permit.	report in 2013, UNM will report the acreages of IA and DCIA in a tabular	the Annual Report.
	2) Procedure or system to review, update,	format to EPA and describe the methodology used to calculate the acreages.	Discussion of
	and/or enact an ordinance(s) or other		maintenance and
	appropriate legal authority mechanism, as	UNM will inventory and rank campus property and MS4 infrastructure that	inspections of storm
	necessary to ensure implementation of the	may have the potential to be retrofitted with control measures to improve	water control features
	SWMP.	storm water quality. Factors such as implementation cost, public safety,	in Annual Report.
	3) Procedures for site inspection and	maintenance access, geology, depth to groundwater/aquifer, proximity to	Submission of
	enforcement to ensure proper long-term	other infrastructure (e.g., sanitary sewer & septic systems), opportunities for	
	operation, maintenance, and repair of	public use and education should be considered in the priority ranking of	finalized policies, procedures,
	stormwater management practices that are	potential retrofit projects. An annual report on what retrofitting work has	guidelines, protocols
	put into place after the completion of	been done will be made beginning in the 3rd (2015) Annual Report to the	regarding Storm
	construction projects/activities.	EPA, and such reporting will continue in each subsequent Annual Report to	Water Quality upon
	4) Procedure to develop and implement an	the EPA.	completion of
	educational program for project developers	IDD (will such to develop watershed anototics account of a second to in	finalized draft.
	regarding designs to control water quality	UNM will work to develop watershed protection measures and propose their	

effects from storm water, and a training program for plan review staff regarding storm water standards, site design techniques and controls, including training regarding Green Infrastructure (GI) practices.

- 5) Assessment of all existing codes, ordinances, planning documents and other applicable regulations, for impediments to the use of green infrastructure practices.
- 6) Estimation of the number of acres of impervious area (IA) and directly connected impervious area (DCIA).
- Report of the assessment findings, which is to be used to provide information to the permittee, of the regulation changes necessary to remove impediments and allow implementation of green infrastructure practices.
- Citations and descriptions of design standards for structural and nonstructural controls to control pollutants in storm water runoff. Include discussion regarding methodology used during design for estimating impacts to water quality and for selecting appropriate structural and nonstructural controls.
- 9) Implementation and enforcement, via ordinance and/or other enforceable mechanism(s), of site design standards that prevent an increase in the one-hundred-year (100-yr), tow-hour (2-hr) peak runoff in a change in the time of the peak, or an increase in the total runoff from its pre-development values to ensure the hydrology associated new development and redevelopment sites mimic the pre-development hydrology of the previously underdeveloped site.
- 10) An inventory and priority ranking of MS4-

incorporation into UNM policy and planning documents as they come up for review for renewal. Such policy and planning documents will include a description of UNM's master planning and project planning procedures to control the discharge of pollutants into the MS4.

- Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within the campus by controlling the creation and expansion of such during development and re-development.
- Identify any environmentally or ecologically sensitive areas that provides water quality benefits or serve critical watershed functions. Requirements may be needed to protect such if there is a technical basis to justify the actual existence of any such areas on campus. Inviting stakeholder input may be required for identifying sensitive areas.
- No streams exist on campus. Should UNM acquire and develop stream-side property, then measures will be taken to disconnect direct discharge to the stream from impervious areas.
- UNM intends to be a leader in the promotion of space-saving storm water infiltration best management practices (BMP) that can protect and enhance groundwater. UNM will seek to avoid hydro-modification of arroyos caused by campus development, including roads, etc.
- UNM will develop and implement development policies to protect soils, prevent topsoil stripping and soil compaction.
- SRS in conjunction with PPD will inspect campus storm water management and control systems to assure long-term operation, maintenance and repair of storm water management and control systems. SRS will propose policy that requires that construction project teams submit as-built plans for storm water management and control systems within 90 days of construction completion. The number of such inspections will be mentioned in UNM's Annual Reports to EPA.
- UNM will participate and cooperate in local experts' combined efforts to refine and present storm water quality educational training for project developers. UNM staff (e.g., OCP, PPD, etc.), including plan reviewers, on construction project teams will receive such training.
- UNM will continue to incorporate watershed protection elements into relevant policy and/or planning documents as they come up for regular review.

In each annual report to EPA, UNM will report any changes/revisions to UNM's Post-Construction Program.

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owned property and infrastructure	
(including public right-of-way) that may	
have the potential to be retrofitted with	
control measures designed to control the	
frequency, volume, and peak intensity of	
stormwater discharges to and from its MS4.	
11) A summary and analysis of all maintenance,	
inspections and enforcement, and the	
number and frequency of inspection	
performed annually shall be included in	
each annual report.	
12) Report the tabulated results of the number of	
acres of IA and DCIA and its estimation	
methodology in the first annual report.	
13) Estimations of the number of acres of IA	
and DCIA that have been added or removed	
during the prior year shall be submitted	
beginning with the second year annual	
report and each subsequent annual report.	
14) A report on those MS4-owned properties	
and infrastructure that have been retrofitted	
with control measures designed to control	
the frequency, volume, and peak intensity of	
stormwater discharges shall be submitted	
beginning with the third year annual report	
and each subsequent annual report.	
15) A cumulative listing of the annual	
modifications made to the Post-Construction	
Storm Water Management Program during	
the permit term, and a cumulative listing of	
annual revisions to administrative	
procedures made or ordinance enacted	
during the permit term shall be included in	
each annual report.	
16) Incorporation of watershed protection	
elements into all relevant policy and/or	
planning documents as they come up for	
regular review, yet no more than five years	
from the permit effective date.	
nom no pomit onocive date.	

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Permit Activity	Proposed Plan	Measurable Goal
A. As described in Part I.C.5.c , the permittee shall	UNM shall continue to implement, review and enhance pollution	Submission of annual
implement, review and enhance their current	prevention practices. When possible, UNM will implement new	progress included in
pollution prevention practices and develop new	source control procedures to limit the discharge of pollutants from the	Annual Report.
source control procedures as detailed in this part to	campus MS4.	
control the amount of pollutants in stormwater		
contributing to or discharging from its MS4. The	As required, PPD will implement a Storm Water Operations &	
permittee shall implement an operation and	Maintenance (O&M) Program by April 2013; b) grounds and	
maintenance (O&M) program that includes a	landscaping maintenance; c) road and parking lot operation and	
training component and has the ultimate goal of	maintenance; d) fleet and building maintenance; e) new construction	
preventing or controlling pollutant runoff from	and land disturbance training; f) utility systems maintenance; g) MS4	
municipal operations. The program shall include the following elements:	system maintenance.	
the following ciements.	UNM's O&M Program will include: a) an updated list of storm water	
1) Maintenance activities, schedules and long-	quality facilities by drainage basin, including location and description;	
term inspection procedures for measures to	b) a target number of 20 storm water quality facilities shall be	
control pollutants from City facilities into the	inspected once every 3 months by PPD and cleaned if necessary (See	
MS4.	Table 1); and c) continue PPD's leading source control program of	
	street and hard-scaping sweep and daily (M-F) litter pickup on	
	campus.	
	UNM maintains a Spill Prevention, Countermeasure and Control Plan	
	(SPCCP) to address the risks from oil tanks larger than 55 gallons. UNM	
	takes measures to insure that parties responsible for a spill on campus take	
	reasonable steps to control and minimize threats to human health and the	
	environment.	
2) Measures to control or eliminate the discharge	Potential discharges will be controlled through implementation of	Submission of annual
of pollutants from street, municipal parking	spill prevention practices, self-inspections, and employee training.	progress updates in
lots, maintenance and storage yards, waste	UNM's O&M Program will also include measures to control the	Annual Report.
transfer stations, fleet or maintenance shops	following storm water pollutants: a) de-icing salts; b) roadway debris	
with outdoor storage area, and salt and sand	and roadside vegetation management practices; leaked automotive	
storage locations.	fluids in equipment maintenance yards; c) debris on hard-scaping	
	(roads, etc.) that can be reduced by modifying street sweeping	
	strategies; and d) targeting problem areas on campus that may have	
	greater pollution potential.	
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3)	Procedures to properly dispose of waste removed from the MS4 and municipal operations, e.g. those used for disposal of accumulated sediments, floatables, and other debris collected from the MS4.	UNM's O&M program will identify waste disposal standard operating procedures (SOPs), including SOPs for motor vehicle fluids, toxic paints, solvents, fertilizers, pesticides, herbicides and any other hazmat. This will include a list of opportunities for recycling substances. Also standard operating procedures will address the removal of sediments, debris, floatables and litter including pet wastes.	Submission of annual progress updates in Annual Report.
4)	Procedures to ensure that new flood m management projects are assessed for impacts on water quality and existing projects are re- assessed for incorporation of additional water quality protection features.	UNM will re-assess existing flood control infrastructure for the potential to retro-fit it with additional water quality enhancement features	Submission of annual progress updates in Annual Report.
5)		UNM's Integrated Pest Management (IPM) manual applies to UNM campus wide. UNM will review and revise the IPM, provide more IPM related training to employees, seek less toxic and equally less expensive new approaches. UNM will work to develop a database to monitor the use of pesticides, herbicides, and fertilizers.	Submission of annual progress updates in Annual Report.
6)	Procedures to control industrial runoff from facilities owned or operated by the permittees which discharge to the MS4.	UNM does not have operations within our campus jurisdiction that would normally be categorized as industrial or that have the potential for high risk runoff.	
7)	Development and implementation of an employee training program to incorporate pollution prevention and good housekeeping techniques into everyday O&M activities, including development of a tracking procedure.	The UNM's O&M program will include training for appropriate UNM staff on improving storm water quality. SRS also included storm water education in the mandatory Basic Annual Safety Training that all UNM employees are required to take.	UNM will continue training employees.

INDUSTRIAL AND HIGH RISK RUNOFF

Permit Activity	Proposed Plan	Measurable Goal
 A. As described in Part I.C.5.d, the permittee shall: 1) Continue implementation and enforcement of the Industrial and High Risk Runoff Program: 2) Assess the overall success of the program; and 3) Document both direct and indirect measurements of program effectiveness biannual reporting required in Part III.H. 	UNM does not have operations within our campus jurisdiction that would normally be categorized as industrial or that have the potential for high risk runoff.	UNM will submit a certification to EPA to that effect.

ILLICIT DISCHARGES AND IMPROPER DISPOSAL

Permit Activity	Proposed Plan	Measurable Goal
A. As described in Part I.C.5.e , the permittee shall	UNM continues to implement efforts to detect and eliminate illicit	UNM will develop
implement and enforce an illicit discharge detection	discharges and improper disposal that may impact the quality of storm	and submit a priority
and elimination (IDDE) program to systematically	water discharged from the campus. IDDE efforts at UNM have	ranking of drainage
detect and eliminate illicit discharges (as defined at 40	historically identified and eliminated at least one non-storm water	basins on the
CFR 122.26(b)(2)) entering the MS4, and to	discharge to our MS4. SRS investigates IDDE problems within 48-hours	campus by October
implement defined procedures to prevent illicit	of being reported. UNM then eliminates illicit discharges or improper	2013.
connections and illegal dumping into the MS4. The	disposal on campus within 30 days. If more time is needed then SRS	
program shall include the following elements in the	develops an elimination schedule within six months.	UNM will implement
SWMP:		an IDDE program on
1) Prohibition, through ordinance or other regulatory	In addition, any newly discovered non-storm water discharges will be	a third of UNM's
mechanism, of non-stormwater discharges into the	assessed for their potential impact to the Rio Grande. SRS will review	MS4 system by
sewer system.	compliance records to check for similar incidents and will prioritize	October 2015 and
2) Implementation of appropriate enforcement	preventing repeat issues by increased awareness. SRS will manage	100% of the UNM's
procedures and actions (including enforcement	UNM's IDDE Program and maintain maps applicable to the campus.	MS4 by October
escalation procedures for recalcitrant or repeat	SRS will check both wet and dry storm water discharges. Initial	2017.
offenders).	assessments of storm water quality will occur by visual and olfactory	2017.
3) Procedures for coordination with adjacent	methods. If suspicious water quality conditions are encountered	If the systematic
municipalities and/or state, tribal, or federal	visually, then water quality samples may be tested with field	IDDE process
regulatory agencies to address situations where	instrumentation, e.g., conductivity, pH, temperature and perhaps	identifies a
investigations indicate the illicit discharge	dissolved oxygen or turbidity.	significant illicit
originates outside the MS4 jurisdiction.		discharge or
4) Investigation of suspected illicit discharges within		improper disposal on
forty-eight (48) hours of detection; elimination of	If visual and field instrumentation assessment is unsatisfactory and other	campus, then that
such discharges as expeditiously as possible; and,	contamination is suspected (e.g., heavier than normal oil sheen), then	finding and a brief
requirement of immediate cessation of illicit	grab samples may be collected for potentially applicable lab analysis by	explanation of any
discharges upon confirmation of responsible	EPA methods, e.g., TPH, BTEX, E. Coli, nitrates/nitrite, etc.	potential hazard will
parties.		be posted on a SRS
5) Review complaint records for the past permit term	UNM SRS will implement an Illicit Discharge Detection and	website page to
and develop a targeted source reduction program	Elimination (IDDE) program on a third of UNM's MS4 system by	inform any interested
for those illicit discharge/improper disposal	3/1/15 and 100% of the UNM MS4 by 3/1/17. UNM will utilize staff	members of the
incidents that have occurred more than twice in	and perhaps contractors, calibrated instrumentation, and qualified	campus or local
two (2) or more years from different location.	laboratories to implement the IDDE program. IDDE efforts may overlap	communities.
	with monitoring dry weather & wet weather discharges. If unusual levels	
B. As described in Part I.C.5.e(v), the permittee shall, in	of water quality contaminants are observed, UNM will analyze the above	SRS will
the IDDE Program:	information to try to track back to the source on campus or where up-	incorporate
1.) Maintain adequate legal authority to implement the	gradient contamination enters campus. UNM will notify up-gradient	that finding
IDDE program to prohibit illicit discharges and	MS4 entities if we encounter contamination from their jurisdiction	into storm
investigate suspected illicit discharges.	entering campus.	water quality

 Delineate the MS4 into catchments or basins; assess the illicit discharge potential of all catchments or basin; and begin implementation of activities described in Part I.C.5.e(v)(3), unless otherwise noted. Implement methods for informing the general public of hazards associated with illegal discharges and improper disposal of waste, including training for public employees. Submit as part of its updated SWMP, a description of the means, methods, quality assurance and controls protocols, and schedule for successfully implementing the required screening field monitoring, laboratory analysis, investigations, and analysis evaluation of data collected. Update a written systematic procedure as soon as possible, but no later than six (6) months, from system screening, follow-up activities to locate source of suspected illicit discharges, or improper disposal, eliminating or requiring elimination of illicit discharges and to document the elimination of the illicit connection or discharge. Develop and submit to EPA and NMED (and Pueblo of Sandia for North Diversion Channel), an initial priority ranking of the MS4 catchments or basins. Begin systematically locating illicit discharges using the procedure developed in accordance with Part I.C.5.e.(v)(3)(b). Expeditiously revise (NMDOT) as necessary, 	 SRS will conduct at least visual IDDE assessment during at least one storm per month during the July-August monsoon season for rainfall occurring during normal 9am to 5pm business hours. SRS will conduct one other visual IDDE assessment during one rainstorm outside of the July-August monsoon season for rainfall occurring during normal 9am to 5pm business hours. SRS UNM will conduct one visual IDDE assessment of snow melt during at least one snowstorm occurring during normal 9am to 5pm business hours. SRS UNM will conduct one visual IDDE assessment of snow melt during at least one snowstorm occurring during normal 9am to 5pm business hours. If the pending Watershed Based Permit (WBP) doesn't replace the Phase 1 MS4 permit, by 2015 UNM will begin utilizing procedures and methodologies (e.g., ORI and IMS) consistent with those described in "Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments," by the Center for Watershed Protection and R. Pitt, dated 2004. By the ORI and IMS procedures above, illicit discharges will begin to be systematically located. Any illicit discharges found will be submitted for project funding for correction in priority based on water quality impact potential. 	training for the associated UNM staff that can best control the problem. As the next advancement in screening, a campus outfall reconnaissance inventory (ORI) will be completed on 1/3 of the campus MS4 outfalls (that do not involve a confined space entry) by March 2015. The remainder of such will be finished by March 2017. Outfalls from any problem catchments will be investigated first in order of priority.
8.) Begin systematically locating illicit discharges using the procedure developed in accordance with		
LINM Storm Water Management Plan		Page 10

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entering the MS4.	
10.)Enhance the existing program, within three (3)	
years, to utilize procedures and methodologies	
consistent with those described in "illicit	
Discharge Detection and Elimination. A Guidance	
Manual for Program Development and Technical	
Assessments."	
11.)Complete implementation of the IDDE activities,	
described in Part I.C.5.e(v) for one third of (1/3) its	
total MS4 service area no later than three (3) years	
from the permit effective date and for 100 percent	
for the MS4 within five (5) years.	
12.)Complete the IDDE activities implementation for	
Problem Catchments defined in Part I.C.5.e(v)(2)	
within three (3) years and for the remainder of the	
system with five (5) years from the effective date	
of the permit.	

CONTROL OF FLOATABLES DISCHARGES

Permit Activity	Proposed Plan	Measurable Goal
 A. As described in Part I.C.5.f, the permittee shall: 1) Synthesize finding from the 2005 AMAFCA/COA Floatable and Gross Pollutant Study to develop a schedule for implementation of controls or additional study. 2) Estimate the annual volume of floatables and trash removed from each control facility and characterize the floatable type. 	 UNM installed water quality inlets in new facilities on the campus to control floatables discharge. Additionally, UNM may have the most intensive litter removal and street and sidewalk sweeping program in the Albuquerque metro area that removes floatables from the campus grounds before they can come into contact with storm water. These activities are continuous. UNM will implement floatable controls in new campus building projects that involve modification of storm water inlets or other MS4 system improvements. Floatable controls will be designed to capture the kinds of floatables present at UNM. UNM will continue to track and report the estimated volume of floatables and trash removed from our control facilities. Beginning in October 2012, PPD will start characterizing the types of floatables removed from control facilities. See table 1 	Schedule for implementation of controls developed as SRS becomes aware of construction projects and as funding is indentified. Include discussion of volume and type of trash removed in Annual Reports.

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WASTE COLLECTION PROGRAMS

Permit Activity	Proposed Plan	Measurable Goal
B. As described in Part I.C.5.g , the permittee shall	UNM carefully collects and disposes of all wastes that could be	Incorporation of
enhance programs for collecting motor vehicle	hazardous to storm water quality. For instance, the SRS Department	Household Hazardous
fluids and household hazardous waste materials by:	picks up and properly disposes of UNM's hazardous wastes in	Waste location/schedule
8) Increasing the frequency of collection days	compliance with RCRA requirements. SRS, PPD and other UNM	information on Middle Rio
hosted.	departments properly manage and dispose of regulated universal wastes	Grande Storm Water
9) Expanding programs to include commercial	and other special wastes. UNM policy UBPP 7780 forbids automotive	Quality Team brochures.
fats, and oils and greases.	maintenance activities on campus outside of the fleet and equipment	
10) Coordinating program efforts between	maintenance operations at the PPD Automotive Center. UNM is	
applicable permittee departments.	expanding its waste collection program to include fats, oils and greases.	
	Furthermore, a couple of UNM's shuttle buses are fueled with bio-	
	diesel made from such recycled fats, oils and greases. UNM continues	
	to coordinate waste collection efforts amongst departments.	

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

Permit Activity	Proposed Plan	Measurable Goal
A. As described in Part I.C.5.i, the existing Public	UNM is actively involved in providing public education and outreach	Outcomes report, prepared
Education and Outreach Program shall be modified	regarding storm water impacts in the Albuquerque area watershed.	by local public relations
to include:	UNM's efforts are aimed to educate the public about storm water	firm hired by the
1) A detailed description of the program and	pollution and how citizens can control the impact of storm water	MRGSWQT will be
outreach activities, including methods for	pollution. Some activities that UNM is involved in include: (1)	submitted in the Annual
disseminating information; target audiences;	actively participating in the Middle Rio Grande Storm Water Quality	Reports. This report will
target pollutants and sources addressed in the	Team (MRGSQT): (2) supporting TV programming such as the	list outreach method and
program; how target pollutants and sources	"Keep the Rio Grand" campaign; (3) posting storm water information	estimated number of
were selected; estimation of people with whom	on the SRS Department website; (4) publishing storm water	individuals reached.
you intend to communicate; and schedule	information in the UNM Today, UNM New Minute or The Daily	
and/or frequency of activities.	Lobo publications; (5) participating in new faculty orientation and	Discussion of additional
2) A plan to target outreach to stakeholders listed	new student orientation; and (6) providing training to UNM staff. The	education and outreach
in Part I.C.5.i (v) (5).	information that UNM provides includes the proper handling, disposal	activities performed by
3) The development and implementation of a	and recycling of used motor vehicle fluids, household hazardous	UNM staff will be
program to promote publicize and facilitate the	wastes, grass clippings, car wash water, use of fertilizers, pesticides	provided in the Annual
use of green infrastructure practices.	and herbicides, oil and toxics on roadways and the steps to report	Reports.
4) An examination of impediments to	illicit discharges and improper disposal. Further, UNM educates pet	
implementing an integrated public education	owners about proper disposal of pet wastes.	Outreach efforts will
program regarding litter reduction, recycling and proper disposal, and green infrastructure	IDDA's CDC Department much provide DDD to maintain not much	continue to be summarized
practices	UNM's SRS Department works with PPD to maintain pet waste collection stations on its Main Campus. SRS also educates owners	in the Annual Reports.
5) A plan to leverage resources by combining	and operators of UNM-related facilities regarding their responsibility	
outreach efforts with small MS4s in the	to control pollutants in storm water discharges from their property to	
Albuquerque Urbanized area.	the MS4 by including storm water pollution prevention training to	
mouqueique orbanized area.	UNM Building Coordinators and staff. SRS is also including storm	
	water education in its 2013 Basic Annual Safety Training required to	
	be taken annually by all UNM employees.	
	be taken annuarry by an error employees.	

PUBLIC INVOLVEMENT AND PARTICIPATION

Permit Activity	Proposed Plan	Measurable Goal
 A. As described in Part I.C.5.j, the permittee shall: 1) Develop and implement a plan to encourage public involvement and provide opportunities for participation in the review, modification and implementation of the SWMP. 2) Develop and implement a process by which public comments to the plan are received an reviewed by person(s) responsible for the SWMP. 3) Make the SWMP available to the public and to the operator of any MS4 or Tribal Authority receiving discharges from the MS4. 	UNM continues to welcome public participation in its SWMP. The SRS Department continues involving other UNM departments, e.g., PPD, OCP, etc., as stakeholders in the development and revision of UNM's SWMP. UNM also participates in local ABQ area public forums where active public involvement occurs, e.g., Middle Rio Grande Water Quality Standards Work Group (MRGWQSWG) meetings. SRS Department regularly trains and updates other UNM Departments about storm water issues and solicits input and participation. SRS will provide a presentation at the upcoming SRS Construction Safety Task Force and at the upcoming Loss Prevention & Control Committee Meeting to insure that all UNM stakeholders are aware of the SWMP and its requirements. Further, UNM works with its MS4 co-permitees to conduct behavior change studies and assist with efforts to establish a process to encourage involvement by environmental groups and civic organizations interested in water quality-related issues. UNM also utilizes volunteers for storm water pollution prevention activities and awareness throughout the metropolitan area, e.g., promotion and participation in the local annual National River Clean Up Day on the Rio Grande River.	Discussion of public input and their comments will be provided in the Annual Report.

DISCHARGES TO IMPAIRED WATERS - IMPLEMENTATION OF NEW BACTERIA TMDL

	rmit Activity	Proposed Plan	Measurable Goal
A.	Revision of Bacteria Target Values for	UNM continues to implement practices that reduce bacterial contamination	Submission of certification
	Consistency with the New TMDL. Review the	of storm water. Most of these practices have multi-purpose benefits in	of review of program
	current bacteria reduction program for consistency	addition to storm water pollution prevention and bacterial reduction.	within three months of
1	with new TMDL requirements and allocations. In	These ongoing practices involve the structural best management practices	permit effective date. This
	consultation with NMED and EPA Region 6, revise	(BMPs) in the operation of our facilities and grounds as well as our public	certification has been
	target values included in the bacteria control plan,	education and outreach efforts. The following describes UNM's program	completed.
	as necessary, based on the new TMDL. Adopt the	to minimize bacterial contamination of storm water.	_
	new E. coli waste load allocation as measurable		
	goals for the SWMP.	UNM is aware of the bacterial source tracking study in the local Middle	
	1) Submit certification of completion of review	Rio Grande watershed which identified the various source animal enteric	
	and revisions.	bacteria contributions. The study indicated that birds contributed the most	
		at roughly a third of the bacteria loading. Dogs were the second largest	
		source. Therefore, UNM's efforts have been focused on controlling bird	
		and dog waste impacts on storm water.	
		a) Dog Poop Stations - UNM's campus is open to the public and	
		people do walk their dogs on campus. This activity is centered	
		around the green spaces, e.g., the Duck Pond on the Central	
		Campus and Golf Course on North Campus. PPD has installed	
		and maintains dog poop disposal bag dispensers on the east and	
		west sides of the Duck Pond area. The North Campus	
		Neighborhood Association has been stocking shopping bags for	
		similar purposes on the southeast corner of the North Golf Course	
		where many folks begin on the perimeter jogging trail. This is	
		also a notable example of public involvement with storm water	
		pollution prevention on campus.	
		b) Bird Controls - UNM continues bird control efforts, especially	
		related to roosting pigeons on UNM buildings. Bird control	
		efforts range from netting at Coronado dormitory trash storage	
		area, equipment bird skirting at the Business Center and bird	
		control wires on the Electrical Engineering & Computer	
		Engineering building window sills. UNM also has an ongoing	
		trapping program that captures hundreds of pigeons a year on	
		many campus roof tops or wherever there may be a roosting	
		problem.	
		c) Street and Sidewalk Sweeping - UNM makes a great effort to	
		keep the campus grounds beautiful. PPD efforts include regular	
		street sweeping and sidewalk sweeping. UNM's street sweeping	
		schedule may be among the most frequent in the metro area, and	

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	nis serves to protect storm water quality from contaminants,	
	cluding bacteria laden animal wastes on hard-scaping.	
	rash & Litter Controls - The local bacterial tracking study also	
	ndicated that humans are one of the smaller sources of bacterial	
	ontamination to storm water. In addition to the homeless	
	opulation in the metro area that may not be using bathrooms, it	
	vas recognized that leaking trash dumpsters and compactors may	
	ontribute to some of the human contamination. Therefore, lids	
	re installed and kept closed on UNM's large trash dumpsters to	
	eep storm water out. The multitude of small trash receptacles	
	long campus sidewalks, at building entrances, etc. are also	
al	ways lined with trash bags and usually topped with lids that	
al	llow trash in and keep it inside. Bagging and lids also prevent	
	rind from blowing trash out of dumpsters and receptacles.	
e) L	eaked Fluid-If trash compactors leak fluids, the standard	
p	ractice at UNM is to absorb the leaked fluids and dispose of the	
al	bsorbent with the other solid waste. Litter is picked up daily,	
Μ	fonday through Friday, all over campus and is disposed of	
	roperly with other solid wastes. Litter pickup includes scooping	
vi	isible dog poop as well as floatables/litter. UNM notifies the	
	OA about problems with pet wastes being left from occupants of	
	eighboring apartment complexes who bring their dogs onto	
	ampus property to defecate.	
,	torm water Retention Ponds - UNM has a few storm water	
	etention ponds on the South Campus and on the North Campus.	
	addition to reducing peak flow into the local MS4, these ponds	
	ct to settle out suspended solids and expose bacteria to solar UV	
	adiation. Solar UV disinfection and settling out suspended	
	olids both help to reduce bacteria levels in storm water	
	ischarged from campus.	
	ublic Education and Outreach & Campus Training - Storm	
	rater pollution prevention training and test questions are part of	
	NM's Mandatory Basic Annual Safety Training (BAST)	
-	rogram for all UNM employees. Additionally, UNM's Safety &	
	isk Services (SRS) department conducts specialized storm water	
	ollution prevention training to PPD employees. SRS's	
	becialized training with Excal's "Storm Watch" and Cooney-	
	Vatson's "Keep the Rio Grand" videos includes an emphasis on	
	et waste pickup and measures to minimize bacterial	
C	ontamination. UNM's portion of the "Keep the Rio Grand"	

video contains an emphasis on pet waste issues and the video was broadcast throughout the local area on PBS's KNME TV Channel 5 and COA's GOVTV on many occasions. At UNM's Welcome Back Days event at the beginning of each semester, SRS has had booths with handouts on storm water pollution prevention including pet wastes and measures to minimize bacterial contamination. SRS and the COA have hosted a booth that is very popular with grade school children at UNM's Sustainability Expo events on the mall outside the Student Union Building. SRS's website (http://shea.unm.edu/environmental-affairs/storm-waterpollution-prevention.pdf) also has information on storm water pollution prevention including pet wastes and measures to minimize bacterial contamination.

MRGSQT- SRS has been financial sponsor and leader in the h) Middle Rio Grande Storm water Quality Team (MRGSQT). The MRGSQT continues to implement a "Scoop the Poop" media campaign to educate and reach out to the public on a communitywide basis. This campaign emphasizes the importance of responsible pet waste management to protect storm water quality and the Rio Grande. MRGSQT has financially supported the Bosque Environmental Monitoring Program (BEMP) which is a cooperative joint effort between the Bosque School and UNM's Biology Department. BEMP teaches elementary school students about river ecosystems and involves them in monitoring it. As a dual purpose benefit, BEMP has monitored coliform and E. coli bacteria levels the Rio Grande River at multiple locations in the ABQ metro area. As part of the MRGSQT, SRS has participated with AMAFCA with a storm water pollution prevention float in the New Mexico State Fair Parade in which thousands of "Scoop the Poop" bumper stickers and other fliers containing pet waste management information was distributed to the public at the Fair and along the parade route. SRS also participates in the National River Clean Up Day events on the Rio Grande and distributes "Scoop the Poop" stuff there.

 with NMED and monitoring progravith the new TM The revised monitoring progravith the new TM The revised monitoring and the revised monitoring provide information of the Allocation (Compared to drainage beind) WLA to the basis, the monitoring the the term of term of	itoring program must: s the indicator parameter. rmation on discharges from all ne MS4 assigned a Waste Load WLA) under the TMDL. The orogram may be a cooperative ther r MS4 operators affected by may sample a portion of the system ad may include in-stream ts as a component of the ffort. The monitoring program e information on the entire system a of the permit sufficient to mpliance with applicable WLAs ney with TMDL assumptions. PA-approved TMDL assign a MS4 on a system-wide or area onitoring program may adopt a ividing the total WLA into an partial allocation for comparison m the portion of the system being .g. percent of total WLA percentage of total area in the ng monitored). fication of completion of review	UNM continues to operate pursuant to the COA bacterial program as necessary for consistency with the new E-Coli TMDL. UNM, as a Phase 1 MS4 co-permittee with the COA, AMAFCA and New Mexico Department of Transportation continues to pay a share of the monitoring costs for the U.S. Geological Survey's bacteria level storm water monitoring work. UNM remains involved in the decisions and reports that the Phase 1 co- permittees generate until such time as the general Watershed Based Permit (WBP) replaces the Phase 1 and Phase 2 permits in the local watershed. UNM remains an involved stakeholder in the current WBP development.	Submission of certification of review of program within three months of permit effective date. This certification has been completed.
Program. Com	of Revised Monitoring nence monitoring under the <i>oli</i> TMDL monitoring program.	The COA has commenced monitoring E-Coli.	Submission of E-Coli results in DMRs and Annual Reports. UNM relies upon the COA and USGS work pursuant to MOU Agreement.

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Permit Activity	Proposed Plan	Measurable Goal
The permittee shall continue implementation of the	UNM will continue to take measures to pro-actively prevent and	Continue to have no
program to prevent, contain and respond to spills that may discharge to the MS4, and enhance as necessary.	promptly respond to spills that would be harmful to stormwater quality and the Rio Grande River.	significant spill incidents on campus that could impact water quality in the Rio Grande River.
Where discharge of material resulting from a spill is necessary to prevent loss of life, personal injury or severe property damage, the permittee(s) shall take, or insure the party responsible for the spill takes, all reasonable steps to control or prevent any adverse	UNM maintains a Spill Prevention, Countermeasure and Control Plan (SPCCP) to address the risks from oil tanks larger than 55 gallons.	Continue to implement spill prevention measures, e.g., stock spill response
effects to human health or the environment.	UNM will do what we can to ensure that the parties responsible for a spill on campus take reasonable steps to control and minimize threats to human health and the environment.	kits, where the potential for harmful spills is greatest.
The spill response program may include a combination of spill response actions by the permittee(s) (and/or another public or private entity), and legal requirements for private entities within the permittee's municipal jurisdiction.		Practice a spill response, e.g., a table top or other
, ,		exercise, to be better prepared for a potential spill on campus.

UNM Storm Water Management Plan

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Table 1

UNM Storm Drain Inlets for Quarterly Maintenance and Measurement Operations

<u>Inlet #</u>

LOCATION

- 1. West of Centennial Engineering (Bldg.122) in roadway along West Curb line
- 2. West of Hibben Center (Bldg. 15) in bump out on West side of road (2-inlets)
- 3. North of Zimmerman (Bldg. 53) in parking lot
- 4. Walkway east of Zimmerman (Bldg. 53) and East of Collage of Education (Bldg. 57)
- 5. SE of Hokona Zia (Bldg. 58) in Redondo Way
- 6. NE of Simpson Hall (Bldg. 66) in Redondo Way
- 7. South of Santa Clara (Bldg. 61) in Redondo Way
- 8. North of SRC Commons (Bldg. 88)
- 9. NE of Mesa Vista (Bldg. 56) at Area 3
- 10. South side of Duck Pond
- 11. SE side of Scholes Hall (Bldg. 10)
- 12. SW of Chapel (Bldg. 25)
- 13. East of Bandelier Hall East (Bldg. 8) at Rose Garden
- 14. North side of EECE (Bldg. 46) in south end of parking lot
- 15. NW of Ford Utilities (Bldg. 116) in parking lot
- 16. SW corner of Novitski Hall (Bldg. 249) in SW corner of south parking lot
- 17. South side Of HSSB (Bldg. 266) in walkway
- 18. NW of HSSB (Bldg. 266) in lawn area
- 19. NW of Novitski Hall (Bldg. 249) in SE corner of north parking lot (2-inlets)
- 20. NW of Observatory (Bldg. 208) in NW corner of parking lot.

Created by PPD

Version Date: Sept. 1, 2012