

**JAPATUL LOW FLOW
DESILTING POND
Storm Water Quality Management Plan**

**April 18, 2018
PDS 2002-2700-14369
23137 Japatul Valley Road
Alpine CA, 91901
APN 523-120-28 & 32**




I. Allan Cooper, P. E.

4/24/18
RCE 16685

Prepared by:

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County of San Diego Standard Project SWQMP

This Standard Project Stormwater Quality Management Plan (SWQMP) must be completed in its entirety and accompany applications to the County for a permit or approval associated with Standard development projects. To determine whether your project is required to submit a Standard Project SWQMP or Priority Development Project (PDP) SWQMP, please reference the County's "Storm Water Intake Form for All Permit Applications."

Step A: Project identification		
Applicant name: McKean Natural Gas, Inc.	Applicant phone: (858) 277-0441	Applicant email: Witmol@aol.com
Record ID:	Assessor's Parcel Number(s): 523-120-28-00, 523-120-32-00	
Project address: 23137 Japatul Valley Road, Alpine, CA 91901		
Project estimated start date: June 1, 2018	Project estimated completion date: Sept 1, 2018	

Step B: Applicant Certification:	
<p>I have read and understand the County of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from construction and land development activities, as described in the BMP Design Manual.</p> <p>This Standard Project SWQMP is intended to comply with the Standard Project requirements of the County of San Diego BMP Design Manual, which is a design manual for compliance with local County of San Diego Watershed Protection Ordinance (Sections 67.801 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001, as amended by Order No. R9-2015-0001 and Order No. R9-2015-0100) requirements for storm water management.</p> <p>I certify the BMPs selected on this form will be implemented to minimize the potentially negative impacts of this project's construction and land development activities on water quality. I further agree to install, monitor, maintain, or revise the selected BMPs to ensure their effectiveness. I also understand that non-compliance with the County's Watershed Protection Ordinance and Grading Ordinance may result in enforcement by the County, including fines, cease and desist orders, or other actions.</p>	
Signature of applicant: <i>[Handwritten Signature]</i>	Date: 4/25/18

STANDARD PROJECT (SP) SWQMP

Step C: Construction Storm Water BMP Checklist

Minimum Required Standard Construction Storm Water BMPs

If you answer "Yes" to any of the questions below, your project is subject to Table 1 on the following page (Minimum Required Standard Construction Stormwater BMPs). As noted in Table 1, please select at least the minimum number of required BMPs, or as many as are feasible for your project. If no BMP is selected, an explanation must be given in the box provided. The following questions are intended to aid in determining construction BMP requirements for your project.

Note: All selected BMPs below must be included on the BMP plan incorporated into the construction plan sets.

1. Will there be soil disturbing activities that will result in exposed soil areas? (This includes minor grading and trenching.) Reference Table 1 Items A, B, D, and E Note: Soil disturbances NOT considered significant include, but are not limited to, change in use, mechanical/electrical/plumbing activities, signs, temporary trailers, interior remodeling, and minor tenant improvement.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
2. Will there be asphalt paving, including patching? Reference Table 1 Items D and F	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
3. Will there be slurries from mortar mixing, coring, or concrete saw cutting? Reference Table 1 Items D and F	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4. Will there be solid wastes from concrete demolition and removal, wall construction, or form work? Reference Table 1 Items D and F	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Will there be stockpiling (soil, compost, asphalt, concrete, solid waste) for over 24 hours? Reference Table 1 Items D and F	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6. Will there be dewatering operations? Reference Table 1 Items C and D	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7. Will there be temporary on-site storage of construction materials, including mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials? Reference Table 1 Items E and F	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8. Will trash or solid waste product be generated from this project? Reference Table 1 Item F	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
9. Will construction equipment be stored on site (e.g.: fuels, oils, trucks, etc.)? Reference Table 1 Item F	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
10. Will Portable Sanitary Services ("Porta-potty") be used on the site? Reference Table 1 Item F	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

STANDARD PROJECT (SP) SWQMP

Table 1 Construction Storm Water BMP Checklist (continued)			
Minimum Required Best Management Practices (BMPs)	CALTRANS SW Handbook ¹ Detail or County Std. Detail	✓ BMP Selected	Reference sheet No's where each selected BMP is shown on the plans. If no BMP is selected, an explanation must be provided.
A. Select Erosion Control Method for Disturbed Slopes (choose at least one for the appropriate season)			
Vegetation Stabilization Planting ² (Summer)	SS-2, SS-4	<input type="checkbox"/>	Sht 5 Erosion Control
Hydraulic Stabilization Hydroseeding ² (Summer)	SS-4	<input checked="" type="checkbox"/>	
Bonded Fiber Matrix or Stabilized Fiber Matrix ³ (Winter)	SS-3	<input type="checkbox"/>	
Physical Stabilization Erosion Control Blanket ³ (Winter)	SS-7	<input type="checkbox"/>	
B. Select erosion control method for disturbed flat areas (slope < 5%) (choose at least one)			
County Standard Lot Perimeter Protection Detail	PDS 659 ⁴ , SC-2	<input checked="" type="checkbox"/>	Sht 5 Erosion Control
Will use erosion control measures from Item A on flat areas also	SS-3, 4, 7	<input type="checkbox"/>	
County Standard Desilting Basin (must treat all site runoff)	PDS 660 ⁵ , SC-2	<input type="checkbox"/>	
Mulch, straw, wood chips, soil application	SS-6, SS-8	<input checked="" type="checkbox"/>	

¹ State of California Department of Transportation (Caltrans). 2003. Storm Water Quality Handbooks, Construction Site Best Management Practices (BMPs) Manual. March. Available online at: <http://www.dot.ca.gov/hq/construc/stormwater/manuals.htm>.

² If Vegetation Stabilization (Planting or Hydroseeding) is proposed for erosion control it may be installed between May 1st and August 15th. Slope irrigation is in place and needs to be operable for slopes >3 feet. Vegetation must be watered and established prior to October 1st. The owner must implement a contingency physical BMP by August 15th if vegetation establishment does not occur by that date. If landscaping is proposed, erosion control measures must also be used while landscaping is being established. Established vegetation must have a subsurface mat of intertwined mature roots with a uniform vegetative coverage of 70 percent of the natural vegetative coverage or more on all disturbed areas.

³ All slopes over three feet must have established vegetative cover prior to final permit approval.

⁴ County of San Diego, Planning & Development Services. 2012. Standard Lot Perimeter Protection Design System. Building Division. PDS 659. Available online at <http://www.sandiegocounty.gov/pds/docs/pds659.pdf>.

⁵ County of San Diego, Planning & Development Services. 2012. County Standard Desilting Basin for Disturbed Areas of 1 Acre or Less Building Division. PDS 659. Available online at <http://www.sandiegocounty.gov/pds/docs/pds660.pdf>.

STANDARD PROJECT (SP) SWQMP

Table 1 Construction Storm Water BMP Checklist (continued)			
Minimum Required Best Management Practices (BMPs)	CALTRANS SW Handbook Detail or County Std. Detail	✓ BMP Selected	Reference sheet No's where each selected BMP is shown on the plan If no BMP is selected, an explanation must be provided.
C. If runoff or dewatering operation is concentrated, velocity must be controlled using an energy dissipater			
Energy Dissipater Outlet Protection ⁶	SS-10	<input checked="" type="checkbox"/>	Sht 5
D. Select sediment control method for all disturbed areas (choose at least one)			
Silt Fence	SC-1	<input checked="" type="checkbox"/>	Sht 5
Fiber Rolls (Straw Wattles)	SC-5	<input checked="" type="checkbox"/>	
Gravel & Sand Bags	SC-6 & 8	<input type="checkbox"/>	
Dewatering Filtration	NS-2	<input type="checkbox"/>	
Storm Drain Inlet Protection	SC-10	<input type="checkbox"/>	
Engineered Desilting Basin (sized for 10-year flow)	SC-2	<input checked="" type="checkbox"/>	
E. Select method for preventing offsite tracking of sediment (choose at least one)			
Stabilized Construction Entrance	TC-1	<input checked="" type="checkbox"/>	Sht 2 (on-site private paved road)
Construction Road Stabilization	TC-2	<input type="checkbox"/>	
Entrance/Exit Tire Wash	TC-3	<input type="checkbox"/>	
Entrance/Exit Inspection & Cleaning Facility	TC-1	<input type="checkbox"/>	
Street Sweeping and Vacuuming	SC-7	<input checked="" type="checkbox"/>	
F. Select the general site management BMPs			
F.1 Materials Management			
Material Delivery & Storage	WM-1	<input checked="" type="checkbox"/>	Sht 5
Spill Prevention and Control	WM-4	<input checked="" type="checkbox"/>	
F.2 Waste Management⁷			
Waste Management Concrete Waste Management	WM-8	<input type="checkbox"/>	Sht 5
Solid Waste Management	WM-5	<input checked="" type="checkbox"/>	
Sanitary Waste Management	WM-9	<input checked="" type="checkbox"/>	
Hazardous Waste Management	WM-6	<input type="checkbox"/>	

Note: The Construction General Permit (Order No. 2009-0009-DWQ) also requires all projects not subject to the BMP Design Manual to comply with runoff reduction requirements through the implementation of post-construction BMPs as described in Section XIII of the order.

⁶ Regional Standard Drawing D-40 – Rip Rap Energy Dissipater is also acceptable for velocity reduction.
⁷ Not all projects will have every waste identified. The applicant is responsible for identifying wastes that will be onsite and applying the appropriate BMP. For example, if concrete will be used, BMP WM-8 must be selected.

STANDARD PROJECT (SP) SWQMP

Step D: Post-Construction Source Control BMP Checklist

Source Control BMPs

All development projects must implement source control BMPs 4.2.1 through 4.2.6 where applicable and feasible. See Chapter 4.2 and Appendix E of the County BMP Design Manual for information to implement source control BMPs shown in this checklist.

Answers for each source control requirement must be pursuant to the following:

- "Yes" means the project will implement the source control BMP as described in Chapter 4.2 and/or Appendix E of the County BMP Design Manual. Discussion/justification is not required.
- "No" means the BMP is applicable to the project but not feasible to implement. Discussion/justification must be provided.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature addressed by the BMP (e.g., the project has no outdoor materials storage areas). Discussion/justification must be provided.

Note: All selected BMPs below must be included on the BMP plan incorporated into the construction plan sets.

Source Control Requirement	Applied?		
4.2.1 Prevention of Illicit Discharges into the MS4	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
4.2.2 Storm Drain Stenciling or Signage	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
4.2.3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
4.2.4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
4.2.5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
4.2.6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below):			
<input type="checkbox"/> A. On-site storm drain inlets	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> B. Interior floor drains and elevator shaft sump pumps	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> C. Interior parking garages	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> D. Need for future indoor & structural pest control	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> E. Landscape/outdoor pesticide use	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> F. Pools, spas, ponds, fountains, and other water features	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> G. Food service	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> H. Trash or Refuse areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> I. Industrial processes	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> J. Outdoor storage of equipment or materials	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> K. Vehicle and equipment cleaning	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> L. Vehicle/equipment repair and maintenance	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> M. Fuel dispensing areas	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> N. Loading docks	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> O. Fire sprinkler test water	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> P. Miscellaneous drain or wash water	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Q. Plazas, sidewalks, driveways, and parking lots	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

Discussion/justification for all "No" answers shown above:

Attach additional pages as necessary.

Step E: Post-Construction Site Design BMP Checklist

Site Design BMPs

All development projects must implement site design BMPs 4.3.1 through 4.3.8 where applicable and feasible. See Chapter 4.3 and Appendix E of the County BMP Design Manual for information to implement site design BMPs shown in this checklist.

Answers for each site design requirement must be pursuant to the following:

- "Yes" means the project will implement the site design BMP as described in Chapter 4.3 and/or Appendix E of the County BMP Design Manual. Discussion/justification is not required.
- "No" means the BMP is applicable to the project but not feasible to implement. Discussion/justification must be provided.
- "N/A" means the BMP is not applicable at the project site because the project does not include the feature addressed by the BMP (e.g., the project site has no existing natural areas to conserve). Discussion/justification must be provided.

Note: All selected BMPs below must be included on the BMP plan incorporated into the construction plan sets.

Site Design Requirement	Applied?		
	Yes	No	N/A
4.3.1 Maintain Natural Drainage Pathways and Hydrologic Features	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.2 Conserve Natural Areas, Soils, and Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.3 Minimize Impervious Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.4 Minimize Soil Compaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.5 Impervious Area Dispersion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.6 Runoff Collection	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.3.7 Landscaping with Native or Drought Tolerant Species	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3.8 Harvesting and Using Precipitation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion/justification for all "No" answers shown above:

Desilt pond is to be entirely vegetated, grading will use structural fill to allow vegetation to grow everywhere.

Self-cleaning & draining w/ 2" bottom drain

Attach additional pages as necessary.