SECTION 011160 MITIGATION MONITORING COMPLIANCE AND REPORTING

A. Environmental Controls

Comply with the following environmental controls.

1. Dust Control:

a. Implement the following dust control measures during all ground disturbance and construction activities:

(1) Use water trucks or sprinkler systems in sufficient quantities to prevent airborne dust from leaving the construction site. Increased watering frequency will be required whenever wind speeds exceed 15 mph. Reclaimed water, if available, shall be used for dust control and other construction-related purposes during project construction. Indicate the source of reclaimed water to be used for dust control.

(2) All material excavated or graded shall be sufficiently watered to prevent excessive amounts of dust. Watering shall occur at least twice a day with complete coverage, preferably in the late morning and after work is done for the day.

(3) Designate a person or persons to monitor the dust control program and to order increased watering, as necessary, to prevent transport of particulate matter off site. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the APCD prior to construction.

(4) All disturbed soil areas not subject to revegetation, including soil stockpiles, shall be stabilized using approved chemical soil binders, jute netting or other methods approved by the APCD with jurisdiction.

(5) Vehicle speed for all construction vehicles shall not exceed 15 mph on any unpaved surface at a construction site.

(6) Where vehicles enter and exit unpaved roads onto streets, install wheel washers of gravel pads or wash all trucks and equipment when leaving site.

(7) Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads.

(8) Trucks transporting fill material to and from the site shall be tarped or maintain at least two feet of freeboard.

2. Air Quality Control:

a. In addition to the above mentioned Dust Control measures, Implement the following air quality control measures during all construction activities:

(1) The Owner has obtained a Geologic Exemption for the requirements under CCR Section 93105 (Naturally Occurring Asbestos ATCM) from the Air Pollution Control District. A copy of the exemption is included in Appendix A. However, if any naturally occurring asbestos, serpentine, or ultramafic rock is found at the project site, the Contractor is responsible for the following:

(a) Comply with the requirements of CCR Section 93105

(b) Report the discovery to the Owner immediately and to the APCD within one business day.

(c) An Asbestos Health and Safety Program and an Asbestos Dust Control Plan shall be submitted to the Air Pollution Control District for review and approval prior to project grading.

(2) All off-road and portable, diesel-powered equipment, including, but not limited to, bulldozers, grading, cranes, loaders, scrapers, backhoes, generator sets, compressors or auxiliary power units, shall be fueled exclusively with CARB motor vehicles diesel fuel. Such equipment shall be stored within a fenced enclosure during non-working hours in order to minimize potential vandalism.

(3) Diesel equipment shall either be certified pursuant to the California Air Resources Board's Portable Equipment Registration Program or will be subject to an Authority to Construct issued by the San Luis Obispo County Air Pollution Control District (APCD), and/or the Santa Barbara County APCD, jurisdiction depending on location of construction activity. This permit will allow implementation of Best Available Control Technologies including diesel particulate filters and/or proper fuel selection.

(4) Where possible, diesel powered equipment shall be replaced with gasoline, electrical, CNG or LPG powered equipment.

3. Site Restoration on non-agricultural land:

   All disturbed, non-agricultural soils within the Santa Maria River shall be stabilized with vegetation upon completion of construction. Implement site restoration per the Revegetation Plan and requirements contained within the Streambed Alteration Agreement (SAA) Permit (copy included in Appendix A). At a minimum, work shall include:

4. Site Restoration on Prime Farmland:

   See Section E – Geology and Soils.

B. Protection of Surface and Ground Water

1. Prior to beginning work, prepare a storm water pollution prevention plan (SWPPP) for construction and submit to the RWQCB in compliance with the statewide General Construction Activity Storm Water Permit. See Part E.2 of this Specification for requirements.

2. Install temporary berms and sedimentation traps, such as silt fencing, straw bales, and sand bags, to minimize erosion of soils and sedimentation into Blosser Ditch and/or Santa Maria River. Sedimentation traps shall be cleaned periodically with silt removal and disposal in a location approved by the Owner.

C. Biological Resources

1. The Owner's qualified Biological Monitor will conduct pre-construction surveys within two (2) weeks prior to construction and a subsequent worker orientation before initiation of any construction activity. Should special-status or threatened species be identified, the Biological Monitor will consult with the appropriate authority for relocation protocol, and construction activities may be delayed as necessary.

2. Erect exclusionary and silt fencing at the boundaries of construction areas and other locations to protect special-status species and habitat, as directed by the Owner's Biological Monitor. Potential fencing areas are shown in Exhibit A, Appendix C. Exact locations and amounts of fencing will be determined by the Owner's Biological Monitor prior to start of construction.

3. All construction workers (including site supervisors, equipment operators, laborers and subcontractors) shall attend a worker orientation to area special-status species and applicable regulatory policies provided by the Owner's Biological Monitor.

4. Limit all equipment staging and parking areas to pre-designated areas, as shown in the drawings. All construction access routes shall be limited to previously disturbed areas and/or existing roadways.

5. If nighttime construction activities are warranted and approved by the Owner, all equipment lighting shall be shielded away from wildlife habitat areas and open sky to minimize lighting/glare impacts to wildlife while still providing safe working conditions for construction personnel. Construction lighting shall be designed to limit offsite illumination to 0.01 foot-candles at 15 feet beyond the temporary construction easement or right-of-way.

6. Implement a dust control program during construction (See Part 1.A for requirements).

7. The Owner's Biological Monitor shall be onsite during all vegetation clearing, and shall periodically monitor the project area during construction activities.

8. Nesting of Protected Migratory Birds and Raptors – The following measures are required to protect protected migratory birds and raptors:

   a. For construction activities scheduled between February 15th and September 15th, the Owner's Biological Monitor shall conduct preconstruction surveys two (2) weeks prior to initiation of work to identify potential bird nesting sites.

      (1) If active nest sites of common bird species protected under the Migratory Bird Treaty Act and Fish and Game Code Sections 3503 and 3503.5 are observed within 300 feet of construction activities, then the project shall be modified and/or delayed as necessary to avoid direct take of the identified nests, eggs, and/or young.

      (2) If active nest sites of raptors and/or species of special concern are observed within the vicinity of project construction activities, construction shall avoid the nest site or be terminated until the California Department of Fish and Game is contacted and an appropriate buffer zone around the nest site is established. Construction activities in the buffer zone shall be prohibited until the young have fledged the nest or the nest is abandoned.

   b. Special Status Aquatic and Semi-Aquatic Species - The following measures are required to protect aquatic and semi-aquatic special status species:

      (1) All work areas within 100 feet of known California red-legged frog (CLRF) habitat shall be surveyed by the Owner's Biological Monitor, each day prior to the initiation of construction activities.

      (2) In the event CRLF is identified in the work area, all work shall cease until the CRLF has safely vacated the work area. At no

time shall any CRLF be relocated and/or affected by project operations without prior approval from the US Fish and Wildlife Service (USFWS).

(3) Install silt fencing around temporary aquatic habitat that have formed during project activities (i.e., trenches that have perched groundwater, etc) to minimize potential for CRLF migration into project site. The location of exclusionary and silt fencing shall be determined by the Owner's Biological Monitor.

c. Special Status Plant Species – The following measures are required to protect special status plant species

(1) Within two (2) weeks prior to construction, the Owner's biological monitor, shall complete a focused botanical survey of the pipeline alignment along the southern boundary of the Santa Maria River. All Blochman's ragwort identified within 50 feet of the proposed horizontal directional drilling laydown area and pipeline alignment shall be marked with a temporary flag.

(2) Protective fencing shall be installed around populations of Blochman's ragwort to prevent loss of this special-status species. As necessary, this shall include minor modifications of the designated horizontal directional drilling laydown area to avoid Blochman's ragwort to the extent feasible.

D. Cultural Resources

1. A qualified archaeologist, retained by the Owner, will conduct preconstruction archeological workshop in order to inform construction personnel about common types of artifacts that may be uncovered during construction and the reporting requirements and responsibilities of construction personnel.

2. All ground disturbing construction activities on and adjacent to significant sites will be monitored by a qualified archaeologist. In the unlikely event that unexpected archaeological resources are discovered during construction, all construction activities shall be halted in the area until the significance of the finding is evaluated by a qualified archaeologist and appropriate recommendations made pursuant to County Land Use Ordinance Section 22.0.

E. Geology and Soils

1. For excavation and construction staging/storage on prime farmland, implement, at a minimum, the following measures to avoid potential permanent impacts to soil resources:

a. Place a geotextile membrane on top of native soils prior to the placement of any stockpile, fill, base materials or construction materials.

b. Stockpile all excavated soils in a manner that protects the soils' physical, chemical and biological characteristics. Biologically active topsoil (A horizon) shall be segregated from deeper soils during construction.

c. At the conclusion of construction, native soils shall be replaced in a manner that mimics the pre-construction characteristics of the soils, including compacting the soils to the same soil permeability, soil texture and available water holding capacity

2. The following erosion control protocol shall be followed in association with pipeline construction:

a. Prior to any work beginning, prepare a project-specific storm water pollution prevention plan (SWPPP) for construction and submit to the RWQCB in compliance with the statewide General Construction Activity Storm Water Permit. The SWPPP shall include provisions for the installation and maintenance of Best Management Practices to reduce the potential for erosion of disturbed soils at the project site.

b. In order to minimize erosion of soils and sedimentation into the Blosser Ditch and/or Santa Maria River and other local drainages during project excavations and underground jacking-and-boring activities, construct temporary berms and sedimentation traps or basins. Temporary berms and sedimentation traps may be constructed from silt fencing, straw bales lined with filter fabric, and/or sand bags. Sedimentation basins and traps shall be cleaned periodically with silt removal and disposal in a location approved by the District. These basins shall be constructed prior to dewatering and regularly maintained during construction, including after storm events, to remain in good working order.

c. Construct straw bale/filter fabric barriers, backed by wire fencing for strength, around spoil piles to contain sediment from runoff. These barriers shall be installed immediately after stockpiling during the dry season and shall be regularly maintained until the stockpiles are completely removed.

F. <u>Hazards and Hazardous Materials</u>

1. Prepare a Spill Contingency Plan (SCP) outlining measures to prevent the release of petroleum and hazardous materials including containment

methods for emergency clean-up operations. Prevention and contingency measures shall include, but not be limited to:

a. Identification of appropriate fueling areas away from sensitive habitat areas such as swales and/or drainages

b. Preparation of maintenance schedule for equipment, and a list of appropriate containment and spill response materials to be stored on-site.

2. Spill containment equipment shall be available on-site during all construction activities. As necessary, this shall include placement of individual spill response trailers at each active work area during project operations.

3. All vehicles shall be staged only in appropriately marked and protected areas and at no time shall any cleaning and/or refueling of equipment be allowed upslope and/or within the vicinity of any drainages and/or wetland habitat areas, including agricultural stock ponds.

4. If an accidental spill of hazardous or toxic material occurs, immediately notify the Regional Water Quality Control Board, the California Department of Fish and Game, the California Department of Toxic Substances, and the Owner.

5. The following pollution prevention measures shall be followed in association with pipeline construction:

a. If rain occurs during or within three days after concrete is placed for any pipeline structures, spread and secure plastic sheets or tarps over the concrete in such a manner to prevent rain from coming in contact with the concrete.

b. Wash out concrete trucks in a designated area where the material cannot run off into the stream or percolate into the groundwater. This area shall be identified in the submitted SWPPP and shall be in place before any concrete is poured.

c. Upon entering the site and regularly thereafter, equipment shall be inspected and maintained prior to working in or immediately adjacent to the Santa Maria River. Any leaks or hoses/fittings in poor condition shall be repaired before the equipment begins work.

G. <u>Noise</u>

1. Comply with local Noise Ordinances.

2. All construction equipment utilizing combustion engines shall be equipped with “critical” grade (rather than “stock” grade) noise mufflers that are in

good condition. Tune back-up beepers to insure lowest possible noise levels.

3. All necessary measures to muffle, shield or enclose construction equipment shall be implemented in order to insure that noise levels at the property line of the nearest residence do not exceed an exterior noise level of 60 dBA. During the project the Owner's Representative shall conduct construction noise monitoring in order to insure the acceptable noise threshold of 60 dBA at the property line of the nearest sensitive receptor.

H. Transportation and Circulation

At all construction sites accessing onto or occurring adjacent to public roadways, provide adequate signage, barriers, and, if necessary, flagmen in order to insure the safe diversion of traffic, bicyclists, and/or pedestrians. Insure continued access from adjacent properties to local roadways. See Specification Section 015526 for additional details.

I. Heaving and Settling Monitoring

Monitor for heaving and settling during bore-and-jack operations in accordance with Specification Section 317216.

END OF SECTION