



THIRD STREET LIGHT RAIL

Environmental Monitoring Report

Monthly Summary for February 2005

For the month of February 2005, the Environmental Monthly Report include the following Segments that are currently under construction:

- Segment C, Central Waterfront (22nd and Jerrold Avenue)
- Segment D, Commercial Corridor (Jerrold to Carrol Avenue) and
- Segment E, Bayview/101

Segment E has reach substantial completion this month. This will be the last month to report for this Segment.

The following Segments are not reported as they have completed construction:

- Segment B, Mission Bay (King to 22nd Avenue)
- Segment F, Visitacion Valley (Hester to Sunnydale Avenue)
- Segment H, Substations, TP SCADA



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Environmental Monitoring Report Segment C Central Waterfront (22nd to Jerrold Avenue) Monthly Summary for February 2005

Weather Conditions:

Mixture of sun and rain. Daytime temps 50-60°F. Generally calms winds.

1. Dust Controls	Remedial Direction	Contractors Response
Damp weather and contractor mitigation efforts minimized dust emissions. Little to no visible dust observed from loading, backfill, and demolition activities. Worksites generally clean. Observe streets and especially sidewalks dirty with loose gravel and dirt.	Maintain streets and sidewalks in a clean and orderly condition. Wet vacuum sweep streets, worksites and sidewalks daily.	Contractor swept sidewalks as requested. Contractor used a wet/vacuum sweeper and made regular passes to clean streets and worksites.

Air Quality Monitoring Results: 15 dust readings were taken. All results were within PALs.

of Samples Collected: Asbestos_0_ Total Dust_0_ Dust_15_ Lead__

Sample*	Date	Location	Result	PAL	Contractor's Response
NA					

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response
Noise and vibration monitoring readings were all within project criteria.	None required at this time.	None required at this time.

3. Soil Handling	Remedial Direction	Contractor's Response
Stockpiles were generally covered at the end of the day with the exception of one occasion. An ENCRs was issued. Off haul of Class 1 was conducted with manifests as required. Soil spills and trackout were generally cleaned by the end of the day.	Cover the stockpiles completely and secure the cover at the end of each day. Place fiber rolls or adequate controls to prevent run off during a rain event.	Contractor covered and secured the stockpiles left overnight more consistently.

4. Water Controls	Remedial Direction	Contractor's Response
Contractor de-watering operations were conducted as per permit requirements. Exposed soils in sidewalk areas were not properly protected from erosion. Catchbasin protection and maintenance need improvement. ENCRs were issued.	Cover or protect exposed soils over conduit trenches in sidewalks between 23 rd and 25 th Street. Inspect and maintain catchbasins and inlets as per the SWPPP schedule	Contractor covered exposed trenches with cold patch asphalt. Contractor swept up loose gravel and dirt accumulated in the catchbasin north of the bridge as requested.

5. Non-Compliance Notices Issued: Contractor's Response

C-081 Failure to protect/cover exposed soils near 24 th St.	Contractor covered exposed soils with cold patch asphalt
C-082 Failure to protect/cover exposed soils near 23 rd St.	Contractor covered exposed soils with cold patch asphalt.
C-083 Failure to sweep gutters north of Islais Creek Bridge	Contractor swept up loose gravel and dirt in gutters as requested.
C-084 Failure to cover soil stockpile on Custer west of 3 rd St.	Stockpile covered as required.

6. Comments

For this period, rain, high relative humidity, and generally calm winds help mitigate dust emissions. Although housekeeping efforts were generally adequate, Contractor was reminded to improve mitigation for stormwater controls.



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment D Commercial Core (Jerrold to Donner Avenue) Monthly Summary for February 2005

Weather Conditions:

Rain 60% of the time, cool temperatures with a high of 62°F, SE winds with a high of 47 mph

1. Dust Controls	Remedial Direction	Contractors Response
Due to wet weather conditions and mitigation controls, no dust emissions were observed during excavation and backfill. Visible dust emissions were observed during pavement grinding and demolition around utility covers. Although air quality monitoring exceeded the criteria for both PM ₁₀ and total dust the Contractor implemented best available mitigation controls by using a wet vacuum sweeper with internal misters. Water truck service was also increased after the roads were grinded and a full-time wet vacuum sweeper was used throughout the grinding process.	Increase wetting of streets as well as sweeping for cleaning of accumulation of dirt on curbs. Provide continuous and adequate misting during demolition. Implement localized dust controls for detail work around the covers.	Water truck and vacuum sweeper service were increased upon notification. For detail work around utility covers, misting was implemented upon request.

Air Quality Monitoring Results: 20 samples collected. All except 7 were within PALs.

of Samples Collected: Asbestos_0 Total Dust_4 Dust_16 Lead_0

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	2/24/05	Underwood to Van Dyke	0.267	0.150	Misting was implemented.
Dust	2/24/05	Thomas to Underwood	0.295	0.150	Equipment has misters and vacuum sweeping
Dust	2/24/05	Shafter to Williams	0.341	0.150	Equipment has misters and vacuum sweeping
Dust	2/25/05	Carroll to Donner, Lane 1	0.203	0.150	Equipment has misters and vacuum sweeping
Dust	2/25/05	Carroll to Donner, Lane 2	0.167	0.150	Equipment has misters and vacuum sweeping
Total Dust	2/24/05	Van Dyke & 3 rd St	0.311	0.260	Wet vacuum sweeping and increased misting
Total Dust	2/24/05	Van Dyke & 3 rd St	0.375	0.260	Wet vacuum sweeping and increased misting

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response
Noise readings were taken during pole foundation drilling using an auger on the east sidewalk between Yosemite and Armstrong. Noise was within criteria. Equivalent noise was measured at 77.9dBA for a 17-minute duration at 100 feet from the source. No vibration monitoring conducted.	None required at this time.	None required at this time.

3. Soil Handling	Remedial Direction	Contractor's Response
Ballast rock stored at Carroll was consumed this month. Occasionally, soil stockpiles would be partially covered. However, contractor responds promptly to cover stockpiles when notified. No import and soil disposal conducted this month.	None required at this time.	None required at this time.

4. Water Controls	Remedial Direction	Contractor's Response
Despite heavy and frequent pours of rain, no major sediment run-off was observed from potential sources. BMP's for sediment erosion were observed in place throughout the month. Inspections and reporting of mitigation controls were updated this month.	None required at this time	None required at this time

5. Non-Compliance Notices Issued:	Contractor's Response
NA	

6. Comments
Dust emissions from pavement grinding are very difficult to suppress or contain using cost-effective construction practices. With the exception of the pavement grinding and a few isolated demolition activities, the contractor continues to comply with mandatory mitigation measures. Generally, contractor responded in reasonable time to provide remedial action when notified.



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment E Bayview/US 101 (Donner to Hester Avenue)

Monthly Summary for February 2005

Weather Conditions:

Rain 50% of the time, cool temperatures with average high of 59°F, winds: variable direction with a high around 20 mph.

1. Dust Controls	Remedial Direction	Contractors Response			
Very few construction work and dust-generating activities were performed this month. Site was kept in clean and orderly condition.	None required at this time.	None required			
<u>Air Quality Monitoring Results:</u> No sampling was conducted this month as earthwork is completed					
<u># of Samples Collected:</u> Asbestos__ Total Dust__ Dust__ Lead__					
Sample*	Date	Location	Result	PAL	Contractor's Response
NA					
* Only when exceeding Project Action Levels (PALs)					
2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response			
No noise/ vibration monitoring conducted this month.	None required at this time	None required at this time			
3. Soil Handling	Remedial Direction	Contractor's Response			
No soil handling activities were observed this month as the project alignment has been paved and track work is completed.	None required at this time	None required at this time			
4. Water Controls	Remedial Direction	Contractor's Response			
No dewatering activities were reported this month. Dewatering is no longer needed. Erosion control devices have been installed and maintained.	None required at this time	None required at this time			
5. Non-Compliance Notices Issued:	Contractor's Response				
None issued this month					
6. Comments					
Very few construction activities were conducted this month. This segment has reached substantial completion. All mitigation measures have been observed implemented.					