



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment C Central Waterfront (22nd to Jerrold Street) Monthly Summary for October, 2004

Weather Conditions:

Warm and wet weather, with rains 25% of the time, WNW winds with a high of 40 mph

1. Dust Controls	Remedial Direction	Contractors Response
Water truck misted down worksites and streets 3 times per day. No visible dust emissions were observed from excavation or backfilling. Visible dust emissions were observed occasionally from demolition activities, dry sweeping and traffic driving on dirty streets. Localized dust controls were implemented and increased upon request. Wet/vacuum sweeper didn't clean worksites and streets daily. ENCRs were issued for poor maintenance of the work areas and debris controls.	Consistently wet sweep all worksites and streets at least 3 times per day and once at the end of the day. Pre-wet before sweeping. Maintain worksites, streets, and sidewalks in clean and orderly condition daily and consistently.	Contractor increased the use of wet/vacuum sweeper, but is not consistent. The Contractor stack materials in orderly condition, removed excess piles, demo debris and trash, and clean up work areas in an effort to improve housekeeping. ENCRs issued for housekeeping were closed. Weekly job walks continue with the Contractor to address environmental issues.

Air Quality Monitoring Results: 15 samples were collected. All results were within PAL's.
Sample Collected: Asbestos: 0 Total Dust:0 Dust: 15 Lead: 0

Sample*	Date	Location	Result	PAL	Contractor's Response
None					

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response
No noise/vibration monitoring was conducted this month.	None at this time.	None at this time.

3. Soil Handling	Remedial Direction	Contractor's Response
Trucks off hauling soil were not overloaded and loads were properly covered. Stockpiles were covered and streets were generally cleaned and free of track-out by the end of the day. Track out observed occasionally was cleaned upon request. Class I and II Soils were off hauled this month with proper documentation. Imported materials results were not submitted in a timely manner.	Provide analytical results for imported materials at least ten days in advance prior to bringing the material on site.	Contractor submitted a clarification for previous results submitted, however analytical results for materials imported this month are still outstanding.

4. Water Controls	Remedial Direction	Contractor's Response
Contractor vacuumed slurry from pavement cutting. Contractor's dewatering systems to discharge into the creek and the sewer system were in operation as per permit requirements, with one exception, when muddy water was observed being discharged into the creek. No sediment run-off observed on site. Some BMP are in place but not all intakes are protected from runoff.	Inspect and maintain the dewatering systems to ensure that all components are functional. Inspect and maintain best management practices consistently during the wet season. As per the SWPPP schedule.	Contractor inspected the dewatering system at the bridge and improved the filtration system upon notification

5. Non-Compliance Notices Issued:	Contractor's Response
C-045 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 25
C-046 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 25
C-047 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 28
C-048 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 32
C-049 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 22
C-050 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 16.
C-051 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 16
C-052 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 17
C-053 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 18
C-054 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 19
C-055 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 26
C-056 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 20
C-057 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 21
C-058 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the area in block 22
C-059 Failure to provide submittals in timely manner	Still outstanding
C-060 Failure to keep site free of debris, dirt, and dust.	Contractor cleaned the construction area in block 16.

6. Comments:
Contractor significantly improved house keeping practices and resources this month. Contractor needs to consistently maintain housekeeping at the site



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment D Commercial Core (Jerrold to Donner Street)

Monthly Summary for October 2004

Weather Conditions:

Warm and wet weather, with rains 25% of the time, WNW winds with a

1. Dust Controls

Mitigation controls for dust generating activities were generally implemented. Despite dust controls such as water sprayers, dust curtains and mufflers, inadequate misting for sidewalk demolition lead to elevated dust readings. Visible dust emissions were observed during grinding of the platform. Dust curtains were installed but not used properly. For housekeeping, work areas were observed with trash, construction debris and surplus material. Initial clean up efforts have been performed. Storage areas were swept and debris and trash was removed however; disposal of surplus materials is still pending. Conditions are generally acceptable and in compliance with the exception of the storage areas at Bancroft and Carroll. Water truck sprayed the streets daily and consistently. Wet vacuum sweeper was used regularly.

Remedial Direction

Provide adequate mitigation controls for all dust generating activities. Maintain storage areas and work areas in clean and orderly condition throughout the life of the project. Remove surplus materials stored at Bancroft and Carroll, which are no longer needed for the project to create space and improve site appearance. Provide full enclosure of the platforms during grinding similar to enclosures for sandblasting.

Contractors Response

Contractor improved mitigation controls upon notification, misting was increased. For housekeeping Contractor removed trash and construction debris, and stored materials in orderly condition. Contractor is working with vendors to return surplus materials or move to a different project. For concrete grinding, platforms will be enclosed.

Air Quality Monitoring Results: 42 samples collected. All except 4 were within PALs.

of Samples Collected: Asbestos 0 Total Dust 12 Dust 30 Lead 0.

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	10/22/04	Thomas & 3 rd St., NE corner	0.204	0.150	Contractor increased misting.
Dust	10/22/04	Thomas & 3 rd St., NE corner	0.283	0.150	Contractor increased misting.
Dust	10/22/04	Revere to Shafter	0.175	0.150	Platform will be enclosed with dust curtains on the next occurrence.
Dust	10/28/04	Shafter & 3 rd St	0.153	0.150	Contractor increased misting.

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring

Noise readings taken this month are within criteria except for platform sandblasting. Noise levels ranged from 82.9dBA – 83.8dBA at 100 feet from the activity. All mitigation controls required were implemented. No vibration monitoring conducted.

Remedial Direction

Consider lowering discharge pressure to mitigate noise levels.

Contractor's Response

Contractor reviewing the suggested remedial action.

3. Soil Handling

Soils stored on sidewalks were covered at the end of the shift until used for backfill. Soils transported within the segment were tarped at the loading area. Surplus soils stored at Carroll were off-hauled this month. Track out was cleaned regularly.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

4. Water Controls

Management of stockpiles, fiber rolls at catch basins and maintenance of gravel roads at the soil handling area were implemented and maintained. No dewatering occurred this month.

Remedial Direction

Inspect and maintain best management practices consistently during the wet season. As per the SWPPP schedule.

Contractor's Response

None required at this time.

5. Non-Compliance Notices Issued:

Contractor's Response

ENCR D-020 Failure to water all active construction areas at least three times a day	Water truck was in service the following day.
ENCR D-021 Failure to maintain daily site and adjacent public areas free of debris, dust and dirt.	Contractor performed initial clean-up efforts. However, removal of surplus materials no longer needed for the project is still pending.
ENCR D-022 Failure to maintain daily site and adjacent public areas free of debris, dust and dirt.	Contractor performed initial clean-up efforts. However, removal of surplus materials no longer needed for the project is still pending.
ENCR D-023 Failure to maintain localized control for demolition and all dust generating activities	Contractor agreed to fully enclose the platform with dust curtains on the next occurrence.
ENCR D-024 Failure to maintain localized control for demolition and all dust generating activities	Contractor increase misting.

6. Comments

With the exception of noise levels for sandblasting and maintenance of storage areas, all environmental issues are within criteria and in compliance.



THIRD STREET LIGHT RAIL

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

Monthly Summary for October 2004

Weather Conditions:

Warm and wet weather, with rains 25% of the time, WNW winds with a high of 40 mph.

1. Dust Controls

Remedial Direction

Contractors Response

Contractor implemented localized dust controls for all dust generating activities upon request. No visible emissions observed from dust generating activities except from demolition using a hoe ram. Abrasive sandblasting at 3rd/ Le Conte, without dust controls and the use of compressed air for track cleaning without adequate misting resulted in dust emissions over the threshold limit. Housekeeping within construction zone and surrounding public right-of-ways was performed as requested. Visible dust emissions observed on the 101 handling area due to truck traffic over dirty and dusty roads.

For sandblasting activities, install dust curtains and pre-wet all surfaces. Pre-clean track way by removing excess debris and provide continuous misting during the use of compressed air. Use water truck on all unpaved roads and soil stockpiles. Contractor needs to implement localized dust controls for hoe ramming activities.

Contractor used water truck for all demolition activities and made passes at the 101 soil handling area to control the dust generated from truck traffic. Additional water was applied during the use of compressed air. Dust readings taken after this control was implemented were within criteria. A dust curtain was installed down wind of sandblasting activities, and continuous misting was applied during operation. Housekeeping issues were completed in a timely manner.

Air Quality Monitoring Results: 13 samples were collected. All results except 6 were within PALs.

of Samples Collected: Asbestos__ Total Dust__ Dust: 13__ Lead__

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	10/1/04	Track area, south of Hester (N)	0.292	0.150	Implemented localized dust control
Dust	10/15/04	Platform south of Le Conte Ave.	0.189	0.150	Erected dust curtain; continuous misting
Dust	10/15/04	Platform south of Le Conte Ave.	0.676	0.150	Erected dust curtain; continuous misting
Dust	10/15/04	Platform south of Le Conte Ave.	0.851	0.150	Erected dust curtain; continuous misting
Dust	10/15/04	Platform south of Le Conte Ave.	0.329	0.150	Erected dust curtain; continuous misting
Dust	10/20/04	East sidewalk, North of Key	0.215	0.150	Stopped demolition; mobilized water truck

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring

Remedial Direction

Contractor's Response

Noise monitoring conducted during sandblasting was within noise criteria.

None required at this time.

None required at this time.

3. Soil Handling

Remedial Direction

Contractor's Response

Trucks transporting soils at 101 soil handling area were using tarps to cover loads during off-haul, with few exceptions. Stockpiles were covered and secured properly.

Contractor reminded to instruct truck drivers to cover all soil loads.

Contractor reminded the trucking of this requirement.

4. Water Controls

Remedial Direction

Contractor's Response

No de-watering activities observed. Erosion control devices were installed prior to start of wet season. Silt fences placed around perimeter of soil stockpiles.

None required at this time.

None required at this time.

5. Non-Compliance Notices Issued:

Contractor's Response

ENCR E-024 Failure to water all active construction areas.

Contractor used water truck on the following day.

ENCR E-025 Not covering trucks carrying soils.

All truck drivers instructed to use tarps.

ENCR E-026 Not covering trucks carrying soils.

Trucking company was contacted to notify driver of non-compliance.

6. Comments

Contractor responded quickly to housekeeping and environmental issues of concern and is generally in compliance



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment H (Substations Traction Power/SCADA)

Monthly Summary for October 2004

Weather Conditions:

Warm and wet weather, with rains 25% of the time, WNW winds with a high of 40

1. Dust Controls		Remedial Direction	Contractors Response		
Dust controls were generally implemented for dust generating activities except during handling of dry soils for backfill and compaction. Misting of soils prior to handling was not observed. Contractor responded to housekeeping requests to improve tidiness of work area. Construction trash and surplus materials were removed from the site immediately. Site conditions, are acceptable and in compliance.		Pre wet dry soils prior to handling. Provide continuous misting when performing soil compaction activities. Provide maintenance of the work sites in neat and orderly condition for the duration of the project.	Backfill and compaction of sub-grade were performed and completed in one day. Exposed soils were misted the following day.		
<u>Air Quality Monitoring Results: One sample was collected. Result was within PALs.</u>					
<u># of Samples Collected:</u> Asbestos__ Total Dust__ Dust_1__ 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 monitoring was conducted during fence post drilling with an auger at Keith lot. Equivalent noise was measured for 68.8dBA for a 15-minute duration at 100 feet from the source. Reading was within noise criteria		None required at this time	None required at this time		
3. Soil Handling		Remedial Direction	Contractor's Response		
Soil and debris piles at Illinois substation were covered daily. There is no other stockpile at the other sub-station lots. Track out was not observed this month.		None required at this time.	None required at this time.		
4. Water Controls		Remedial Direction	Contractor's Response		
Fiber rolls were placed in front of stockpiles and on catch basin grates to trap sediment run-off. Accumulation of dirt on streets, curbs and driveways were also swept to minimize storm water pollution. No de-watering activities performed at any of the work sites.		None required at this time.	None required at this time.		
5. Non-Compliance Notices Issued:		Contractor's Response			
None issued this month					
6. Comments					
With the exception of Keith lot, all sub-station locations have a driveway and perimeter sidewalk. This greatly improves lot appearance not to mention less exposed soils to maintain during the wet season.					