



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment B/Mission Bay (4th and King to 22nd Street)

Monthly Summary for September 2004

Weather Conditions:

Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40 mph

1. Dust Controls		Remedial Direction	Contractors Response		
Very little construction activity observed this month. Contractor implemented mitigation controls for demolition and excavation activities and made efforts to maintain the site in orderly condition.		None required at this time	None required		
<u>Air Quality Monitoring Results: No samples were collected this month</u>					
<u>Collected: Asbestos Total Dust Dust Lead</u>					
Sample*	Date	Location	Result	PAL	Contractor's Response
* 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		
3. Soil Handling		Remedial Direction	Contractor's Response		
Soil/demolition debris stockpiles at 19 th street were removed and disposed. A new pile of demo debris was observed at this location. It appears to have been illegally dumped by an unknown source. Contractor was notified.		None required at this time	None required		
4. Water Controls		Remedial Direction	Contractor's Response		
Streets and curbs were well maintained and free of dirt and debris.		None required at this time	None required		
5. Non-Compliance Notices Issued:		Contractor's Response			
None were issued this month		None required at this time			
6. Comments					
This segment is substantially completed. For the most part the Contractor worked the first two weeks this month. Very little construction activities are expected for the following month.					



THIRD STREET LIGHT RAIL

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

Weather Conditions:

Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40 mph

1. Dust Controls

Demolition, excavation, loading and backfill were observed with localized dust controls implemented. Water truck misted down streets at least 3 times per day. However, wet/vacuum sweeper is used occasionally to clean worksites and streets. Visible dust emissions observed from activities including wind blowing across messy worksites, backfilling with dry gravel and traffic driving on dirty streets. Serpentine soils not kept consistently wet or covered. Dust barriers and prewetting observed for sandblasting. Contractor made efforts to improve house keeping.

Remedial Direction

Consistently wet sweep all worksites and streets at least 3 times per day and once at the end of the day. Prewet gravel before backfill. On a daily basis consistently maintain worksites, streets, and sidewalks in a clean and orderly fashion. Mist handling of serpentine soils consistently and kept the material covered.

Contractors Response

Wet/vacuum sweeper not consistently in use by contractor. Weekly job walks continued with contractor to address environmental issues. Serpentine soils were covered. Pre-wetted gravel before using for backfill.

Air Quality Monitoring Results: A total of 44 samples were collected. All results were within PAL's.

Sample Collected: Asbestos 12 Total Dust 8 Dust 20 Lead 4

Sample*	Date	Location	Result	PAL	Contractor's Response

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring

Noise monitoring for sandblasting was within noise criteria with exception of readings taken on 9/30/04. This was possibly due to heavy traffic and the close proximity of the neighborhood buildings. Vibration monitoring was within project criteria.

Remedial Direction

Consider reducing compressor pressure during sandblasting to reduce noise. Monitoring for sandblasting will continue to be performed to evaluate the effectiveness of mitigation controls.

Contractor's Response

Contractor reviewing remedial direction.

3. Soil Handling

Class I, II and railroad ties were off hauled and disposed this month with proper documentation Loads were covered. Few trucks transporting soils for reuse were overloaded; Contractor corrected this action upon request. Most stockpiles were covered. However, stockpiles are rarely covered to the ground. Street generally clean and free of track-out by the end of the day. Occasional track out observed overnight, contractor corrected incidents upon request.

Remedial Direction

Completely and securely cover all stockpiles. Secure visqueen on stockpiles with sand bags. Do not use loose soils, sand, rocks, or gravel to secure visqueen over stockpiles.

Contractor's Response

Contractor has improved stockpile management procedure. However, additional improvement still needed.

4. Water Controls

Contractor generally vacuums all slurry from pavement cutting. Contractor installed a new dewatering system at the southeast end of the IC bridge to a wrong manhole and discharged wastewater into the bay. Flow meter was also broken. Contractor stopped activity upon notification. Regional Water Quality Control Board issued the Contractor a warning citation

Remedial Direction

Strictly adhere to all criteria set forth in dewatering permit. All dewatering systems shall include pre-treatment for sediment and discharge flow meters.

Contractor's Response

Contractor fixed the broken meter and installed filtration devices.

5. Non-Compliance Notices Issued:

Contractor's Response

C-036 Failure to remove construction debris from the public right of way.	Contractor removed construction debris from the public right of way.
C-037 Failure to wet sweep construction area daily	Contractor cleaned the construction area in question.
C-038 Failure to remove construction debris from the public right of way	Contractor removed construction debris from the public right of way.
C-040 Failure to wet sweep construction area daily	Contractor cleaned the construction area in question
C-041 Failure to maintain site and public areas free of debris, dust and dirt	Contractor removed construction debris from the public right of way.
C-042 Failure to maintain site and public areas free of debris, dust and dirt	Contractor cleaned the construction area in question
C-043 Improper soil handling Failure to maintain dust control for serpentine	Contractor apply water after notified and covered the material
C-044 Improper handling and treatment of groundwater prior to discharge.	Contractor installed filtration devices and fixed broken flow meter.
C-045 Failure to maintain site and public areas free of debris, dust and dirt	No response

6. Comments:

Contractor improved the use of localized dust controls and house keeping this month. Contractor needs to continue to improve stockpiles management, strictly adhere to the dewatering permit requirements and increase usage of wet/vacuum sweeper.



THIRD STREET LIGHT RAIL

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

Monthly Summary for September 2004

Weather Conditions: Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40 mph

1. Dust Controls	Remedial Direction	Contractors Response			
Contractor continues to implement mitigation controls for all dust generating activities. Despite the efforts, dust emissions produced during sidewalk demolition and trenching with a rockwheel exceeded threshold limit. Warm temperatures and calm winds contributed to elevated dust readings. Tidiness of worksites continues to improve. Wood ties stored at Armstrong St. were removed and thorough wet sweeping of dirt and wood splinters was performed afterwards. Pedestrian monitors continue to perform daily clean up of public areas. Water truck makes regular passes spraying streets and exposed soils at the median. Amended water was also sprayed on exposed soils before the weekends.	Implement consistent and adequate mitigation controls for all dust generating activities. Install mufflers on all jackhammers	Contractor provided continuous misting during sidewalk demolition and during Rockwheel operation. Mufflers were ordered upon request. In the meantime, burlaps were used to control the jackhammer's exhaust.			
Air Quality Monitoring Results: 59 samples were collected. All except 10 were within PALs					
# of Samples Collected: Asbestos <u>0</u> Total Dust <u>8</u> Dust <u>47</u> Lead <u>4</u>					
Sample	Date	Location	Result	PAL	Contractor's Response
Dust	9/08/04	Palou to Quesada, West sidewalk	0.592	0.150	Contractor increased misting.
Dust	9/08/04	Palou to Quesada, West sidewalk	0.569	0.150	Contractor increased misting.
Dust	9/09/04	Palou to Quesada, West sidewalk	0.205	0.150	Muffled the jackhammer with a burlap..
Dust	9/10/04	Palou to Quesada, West sidewalk	0.171	0.150	Contractor provided continuous misting.
Dust	9/14/04	Quesada to Revere, West sidewalk	0.199	0.150	Contractor provided continuous misting.
Dust	9/17/04	Van Dyke & 3 rd intersection	0.825	0.150	Contractor provided continuous misting.
Dust	9/17/04	Van Dyke & 3 rd intersection	0.224	0.150	Contractor provided continuous misting.
Dust	9/17/04	Van Dyke & 3 rd intersection	0.188	0.150	Contractor provided continuous misting.
Dust	9/17/04	Van Dyke & 3 rd intersection	0.616	0.150	Contractor provided continuous misting.
Dust	9/17/04	Van Dyke & 3 rd intersection	0.310	0.150	Contractor provided continuous misting.
* Only when exceeding Project Action Levels (PALs)					
2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response			
Noise readings taken this month are within threshold limit. Activities monitored are loading of wood ties on dump trucks. No vibration monitoring conducted.	None required at this time	None required			
3. Soil Handling	Remedial Direction	Contractor's Response			
Soils stored on the sidewalks were covered at the end of the shift. Soils transported within the segment were covered at the loading area. Track out was cleaned up promptly.	None required at this time	None required			
4. Water Controls	Remedial Direction	Contractor's Response			
No de-watering activities conducted this month.	None required at this time	None required			
5. Non-Compliance Notices Issued:	Contractor's Response				
ENCR D-019 Failure to maintain daily site and adjacent public areas free of debris, dust and dirt.	Contractor disposed all wood ties in one week.				
6. Comments					
Although the rockwheel use exceeds the project dust levels criteria, currently, there is no equipment available that matches the rockwheel's productivity and at the same time generates less dust. For sidewalk demolition, the City will continue to monitor this activity for dust emissions. Field observations show that some blocks have thicker concrete, demolition with the jackhammer produce more dust and is harder in this locations.					



THIRD STREET LIGHT RAIL

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

Monthly Summary for September 2004

Weather Conditions:

Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40

1. Dust Controls

Remedial Direction

Contractors Response

Contractor continued to implement localized dust control for all dust generating activities upon request. Dust observed during the use of compressed air for cleaning of track way, jack hammering, truck loading and hoe ramming. Housekeeping within construction zone and surrounding area performed as requested

Provide localized dust control for all demolition and dust generating activities. Use water truck on all unpaved roads and soil stockpiles. Pre clean track way prior to the use of compressed air.

Contractor used localized dust control for dust generating activities. All track ways were pre-cleaned and watered down prior to use of compressed air.

Air Quality Monitoring Results: 16 samples collected. All results except 1 were within PALs.

of Samples Collected: Asbestos __ Total Dust _8_ Dust _8_ Lead __

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	9/08/04	Wall #5- Hester (North) and 3rd	0.242	0.150	Water used to control dust on following day

* 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 required at this time.

None required at this time.

3. Soil Handling

Remedial Direction

Contractor's Response

Contractor kept track out at 101 soil handling area clean.

None required at this time.

None required at this time.

4. Water Controls

Remedial Direction

Contractor's Response

No de-watering activities or sediment runoff observed this month.

None required at this time.

None required at this time.

5. Non-Compliance Notices Issued:

Contractor's Response

ENCR E-023 No localized dust control used while hoe ramming a pole foundation

Contractor used water when hoe ramming on the following day

6. Comments

In general this project is in compliance. Contractor implements mitigation controls promptly for issues that require remedial action.



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment F Visitacion Valley (Hester Street to Donner Avenue)

Monthly Summary for September 2004

Weather Conditions: Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40 mph

1. Dust Controls		Remedial Direction	Contractors Response		
No dust emissions observed, as there are not dust-generating activities and the project is substantially completed.		None required at this time	None required		
<u>Air Quality Monitoring Results: No samples were collected this month</u>					
<u># of Samples Collected:</u> Asbestos__ Total Dust __ Dust__ Lead__					
Sample*	Date	Location	Result	PAL	Contractor's Response
* 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 required at this time	None required		
3. Soil Handling		Remedial Direction	Contractor's Response		
No soil stockpiles observed along the project alignment.		None required at this time	None required		
4. Water Controls		Remedial Direction	Contractor's Response		
No de-watering activities or sediment run-off observed this month.		None required at this time	None required		
5. Non-Compliance Notices Issued:		Contractor's Response			
None issued this month		NA			
6. Comments					
This project is substantially completed and has been properly maintained.					



THIRD STREET LIGHT RAIL

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

Monthly Summary for Segment H

Weather Conditions Mixture of clouds and sun; 80°F with a high of 98.2°F, WNW winds with a high of 40 mph

1. Dust Controls	Remedial Direction	Contractors Response
No dust emissions observed as misting was implemented on all dust generating activities such as demolition, excavation, grading, soil backfill and compaction. These activities were performed at Keith and Illinois work sites. Tidiness of work sites especially at Illinois sub-station was requested. Supplies were grouped and organized while trash and debris were thrown in a dumpster. Also, streets and curbs were swept upon request.	None required at this time	None required at this time

Air Quality Monitoring Results: No samples were collected this month

of Samples Collected: Asbestos__ Total Dust__ Dust__ Lead__

Sample*	Date	Location	Result	PAL	Contractor's Response

* Only when exceeding Project Action Levels (PALs)

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

3. Soil Handling	Remedial Direction	Contractor's Response
Occasionally, soil stockpile at Illinois would be partially covered. Strong afternoon winds would blow the cover if improperly or inadequately covered	Completely cover and protect the stockpile to prevent covers being blown.	Contractor promptly responds to provide mitigation controls by adequately loading cover

4. Water Controls	Remedial Direction	Contractor's Response
No potential sources for run off observed since work is confined on the sub-station lots. No de-watering activities performed.	None required at this time	None required

5. Non-Compliance Notices Issued:	Contractor's Response
None issued	NA

6. Comments
Soil handling activities were performed to prepare the sites for sidewalks and driveways. Currently, the sidewalk at Illinois sub-station is partially completed. At Keith sub-station, the site is ready for concrete pour for the driveway. Once the driveways and sidewalks are complete, there would be less exposed soils to maintain both in the dry and wet season.

