



THIRD STREET LIGHT RAIL

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

Monthly Summary for August 2004

Weather Conditions: Morning fog with afternoon sun; 64°F average with a high of 94°F, WNW winds with a high of 35 mph.

1. Dust Controls		Remedial Direction	Contractors Response		
Minor demolition for conduit installation was conducted this month. Mitigation controls were implemented for all dust generating activities. Contractor performed all necessary housekeeping.		None required at this time.	None required at this time.		
<p>Air Quality Monitoring Results: A total of 3 samples were collected. All results were within PALs</p> <p># of Samples Collected: Asbestos <u>0</u> Total Dust <u>0</u> Dust <u>3</u> Lead <u>0</u></p>					
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 conducted this month.		None required at this time.	None required at this time.		
3. Soil Handling		Remedial Direction	Contractor's Response		
Stockpiles were consolidated at 19 th St and covered every night. The area was kept clean of debris and loose soil and dust.		None required at this time.	None required at this time.		
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 at this time.		
5. Non-Compliance Notices Issued:		Contractor's Response			
None issued this month		None required at this time			
6. Comments					
Overall this segment was in compliance with mitigation controls. Contractor maintained the project alignment in good and orderly condition.					



THIRD STREET LIGHT RAIL

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

Weather Conditions: Mixture clouds and sun, 70°F, with high of 94.3°F. W/NW winds between 10 to 35mph

1. Dust Controls	Remedial Direction	Contractors Response
Water truck consistently misted down worksites and streets 3 times per day. Water truck quick to respond to issues of immediate concern. Localized dust controls in use. Wet/vacuum sweeper not consistently used to clean worksites and streets daily. Visible dust emissions occasionally observed from activities including wind blowing across messy worksites and traffic driving on dirty streets. Little visible dust observed from excavation, demolition, and backfill activities. Contractor has made considerable efforts to improve house keeping.	Consistently wet sweep all worksites and streets at least 3 times per day and once at the end of the day. Do not dry sweep. Maintain worksites, streets, and sidewalks in a clean and orderly fashion daily and consistently.	Wet/vacuum sweeper not consistently in use by contractor. Weekly job walks started this month with the Contractor to better address environmental issues.

Air Quality Monitoring Results: A total of 50 samples were collected. All results were within PAL's.
Sample Collected: Asbestos 0 Total Dust 7 Dust 36 Lead 7

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
Noise monitoring was within project criteria. Vibratory pile extraction near Islais Bridge exceeded vibration project limits for infrequent vibration of 0.100 peak particle velocity (ppv) NTE 5 seconds. Readings were at 0.131 ppv for more than five seconds	Modify current method of extraction to reduce vibratory disturbance. Consider reducing throttle level during extraction, and pausing intermittently to reduce vibration.	Contractor reviewing remedial direction.

3. Soil Handling	Remedial Direction	Contractor's Response
Loaded trucks covered. Stockpiles generally covered. However, numerous stockpiles were left partially covered at the end of the day. Stockpiles are rarely covered to the ground and sometimes are secured with soils. Street generally clean and free of track-out by the end of the day. Class I and II Soils off hauled this month were properly documented and disposed.	Cover all stockpiles completely. Secure plastic cover or visqueen on stockpiles with sand bags or other approved methods. Do not use loose soils, sand, rocks, or gravel to secure visqueen over stockpiles.	Contractor has improved stockpile management procedures. However, additional improvement still needed.

4. Water Controls	Remedial Direction	Contractor's Response
Contractor generally vacuums all slurry from pavement cutting. With few exceptions, Contractor followed permit specifications and requirements for de-watering. Current de-watering capacity may not be adequate during high tides and excavations close to Islais Creek.	Strictly adhere to all criteria set forth in de-watering permit. All systems shall include pre-treatment for sediment and flow meters to discharge. Obtain a permit from the Regional Water Quality Control Board RWQCB to discharge groundwater into the Islais Creek and relieve strain on city sewer system.	Contractor followed the RWQCB recommendations and obtained a permit to discharge from this agency to discharge directly into the creek. This dewatering reduced strain in the City Southeast Waste Water Treatment Plant.

5. Non-Compliance Notices Issued:	Contractor's Response
C-023-Messy sidewalks near 23 rd Street	None at this time
C-35-Failure to install discharge meter for dewatering	Installed discharge flow meter as required by permit.

6. Comments:
Dust controls generally adequate. Contractor significantly improved house keeping practices this month. Dewatering practices better executed than previous months. Contractor needs continue to improve coverage of stockpiles 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 August 2004

Weather Conditions:

Mixture of clouds and sun; 70°F with a high of 94.3°F, WNW winds with a high of 35 mph

1. Dust Controls

Contractor generally implemented mitigation controls for all dust generating activities. Occasionally, dust controls were not in place or inadequate. Housekeeping greatly improved this month when stockpile of debris were removed from the median. Maintenance of public areas continues to be performed on a daily basis. Additional side nozzles were installed on the water truck to spray exposed soils in the median. Wet vacuum sweeping is seldom performed.

Remedial Direction

Implement consistent and adequate mitigation controls for all dust generating activities. Provide a back up in the event that primary misting equipment is down. Wet sweep and vacuum the streets and intersections where work is in progress at least three (3) times per shift and one (1) at the end of the day.

Contractors Response

Contractor promptly responded to implement or enhance dust mitigation controls. No alternative mitigation means was provided when the water truck was down during installation of additional side nozzles. Wet sweeping of messy areas were performed upon request.

Air Quality Monitoring Results: 75 samples were collected. All except 7 were within PALs

of Samples Collected: Asbestos 0 Total Dust 16 Dust 43 Lead 16

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	8/11/04	Carroll yard	0.152	0.150	Water truck was in service the next day
Dust	8/13/04	Bancroft to Carroll	0.334	0.150	Contractor used dust curtains
Dust	8/20/04	Newcomb to Oakdale	0.177	0.150	Soils were moved to one side of the trench
Dust	8/20/04	Bancroft to Carroll	0.164	0.150	Increased misting and dust curtain.
Dust	8/31/04	Kirkwood to La Salle	0.166	0.150	Water buffalo was re-filled
Total Dust	8/17/04	Carroll and 3 rd St. intersection	0.267	0.260	Wet sweeping using the 3-wheel sweeper
Total Dust	8/17/04	Carroll and 3 rd St. intersection	0.383	0.260	Wet sweeping using the 3-wheel sweeper

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring

Noise readings for loading of concrete debris on dump truck and pole foundation drilling were within threshold limit. No vibration monitoring conducted.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

3. Soil Handling

Soils stored on the median were removed before each weekend. Soils transported within the segment as well as for disposal were covered.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

4. Water Controls

No de-watering activities conducted this month. Concrete slurry from pavement cuttings was vacuumed immediately. Wet sweeping of streets, curb and yard entrance was not performed daily.

Remedial Direction

Wet sweep and vacuum the streets and intersections where work is in progress at least three (3) times per shift and one (1) at the end of the day.

Contractor's Response

Contractor wet sweeps dirty areas when requested.

5. Non-Compliance Notices Issued:

Contractor's Response

ENCR D-005B For failure to provide submittals in a timely manner.	Additional submittals were furnished this month.
ENCR D-015E For failure to maintain daily site and adjacent public right of way debris, dirt and dust	Contractor removed visqueen left at the track way used during concrete pour.
ENCR D-015G For failure to maintain daily site and adjacent public right of way debris, dirt and dust	Contractor swept the SW curb at Revere of accumulation of dirt and trash.
ENCR D-015H For failure to maintain daily site and adjacent public right of way debris, dirt and dust	Stockpile of debris and soils stored at the median were removed before the weekend.
ENCR D-013C For failure to maintain localized dust control for demolition.	Dust curtains and misting was implement on subsequent activities.

6. Comments

All non-compliance issues have been resolved. Currently, dust mitigation controls and housekeeping are being implemented, however, daily wet vacuum sweeping of active construction areas can be improved.



THIRD STREET LIGHT RAIL

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

Monthly Summary for August 2004

Weather Conditions:

Mostly sunny and dry, no rain. Temperatures averaged in the high 60's, occasional high temperatures. Winds predominantly from the southwest, gusts up to 36 MPH.

1. Dust Controls

Dust emissions observed due to concrete chipping, use of compressed air to clean track way, hoe ramming, jack hammering, loading, and truck traffic. Contractor implemented localized dust control, increased localized dust control and performed housekeeping upon request.

Remedial Direction

Provide localized dust control for all demolition and dust generating activities. Increase dust control efforts on dry and windy days.

Contractors Response

Contractor provided localized dust control upon request and increased the use of localized dust control.

Air Quality Monitoring Results: A total of 22 samples were collected. All were within PALs.

of Samples Collected: Asbestos NA Total Dust 8 Dust 14 Lead 0

Sample*	Date	Location	Result	PAL	Contractor's Response
None					

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring

No Noise/ Vibration monitoring was conducted this month.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

3. Soil Handling

Track out was kept under control at all construction entrances/ exits. Trucks were observed covered.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

4. Water Controls

No sediment runoff or erosion concerns observed on the project this month. BMPs are in place.

Remedial Direction

None required at this time.

Contractor's Response

None required at this time.

5. Non-Compliance Notices Issued:

None issued this month

Contractor's Response

None required at this time

6. Comments

For the most part Contractor is generally in compliance with mitigation controls and housekeeping practices and responds with increased efforts upon request.



THIRD STREET LIGHT RAIL

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

Monthly Summary for August 2004

Weather Conditions:

Mostly sunny and dry, no rain. Temperatures averaged in the high 60's, occasional high temperatures. Winds predominantly from the southwest, gusts up to 36 MPH.

1. Dust Controls		Remedial Direction	Contractors Response		
No dust generating activities observed, excavation and demolition has been completed, therefore no dust emissions were observed this month		None required at this time.	None required at this time.		
<p><u>Air Quality Monitoring Results:</u> 1 sample was collected . Result was within PALs.</p> <p><u># of Samples Collected:</u> Asbestos NA Total Dust <u>0</u> Dust <u>1</u> Lead <u>0</u></p>					
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 required at this time.	None required at this time.		
3. Soil Handling		Remedial Direction	Contractor's Response		
No soil stockpiles observed along the project alignment.		None required at this time.	None required at this time.		
4. Water Controls		Remedial Direction	Contractor's Response		
No sediment runoff or erosion concerns observed on the project this month.		None required at this time.	None required at this time.		
5. Non-Compliance Notices Issued:		Contractor's Response			
None issued this month		None required at this time			
6. Comments					
Contractor is in compliance with mitigation controls. Very little construction activity in this segment. Some demolition activity is scheduled for September. This activity will be monitored to assure that appropriate mitigation controls are in place					



THIRD STREET LIGHT RAIL

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

Monthly Summary for August 2004

Weather Conditions:

Mixture of clouds and sun; 70°F with a high of 94.3°F, WNW winds with a high of 35 mph

1. Dust Controls	Remedial Direction	Contractors Response
<p>Very few dust-generating activities were performed this month. Contractor implemented dust mitigation controls. However, dust plumes were generated at Keith Street due to soil track out. Tidiness of Keith work site greatly improved as the area was cleared of supplies and debris in preparation for setting the pre-fabricated building. Supplies at Illinois sub-station remain unconsolidated. Streets and curbs at all sub-station locations are free of debris and accumulation of dirt.</p>	<p>Wet sweep and vacuum the streets and intersections where work is in progress at least three (3) times per shift and one (1) at the end of the day. Store supplies at designated areas</p>	<p>Wet vacuum sweeping at Keith Street was performed to wet sweep soil track out at Keith Street. Wet vacuum sweeping was performed at the end of the shift. Contractor performed partial consolidation of supplies and debris at Illinois sub-station.</p>

Air Quality Monitoring Results: One sample was collected. Result was within PALs.

of Samples Collected: Asbestos NA Total Dust 0 Dust 1 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
<p>Noise readings taken were within threshold limit. Equipments monitored were a concrete pump truck and a cement truck used during concrete pour of the retaining walls and a Leibherr 200 ton crane used to lift and set the pre-fabricated building. No vibration monitoring conducted.</p>	<p>None required at this time</p>	<p>None required at this time</p>

3. Soil Handling	Remedial Direction	Contractor's Response
<p>Soil stockpile at Phelps and Keith lots were covered at the end of the shift. Currently, there are no stockpiles of soils at any sub-station locations.</p>	<p>None required at this time</p>	<p>None required at this time.</p>

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

5. Non-Compliance Notices Issued:	Contractor's Response
<p>None issued this month</p>	<p>None required at this time</p>

6. Comments
<p>It is expected that dust generating as well as noise emitting activities will continue to lessen next month as all building structures are up. Work activities would be confined inside the building structures. Other than improvements on consolidation of materials at Illinois sub-station, the Contractor is in compliance with mitigation requirements.</p>