

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

Monthly Summary for February 2004

Weather Conditions:

Mostly overcast, rain 40% of reporting period; Winds; variable dir 50mph

1. Dust Controls	Remedial Direction	Contractors Response
<p>All major demolition and excavation activities are completed. Minor excavations at sidewalks for electrical work. No visible dust emissions observed with the exception of manhole collar demolition and dry sweeping for paving. Contractor cannot use water for sweeping in order for the binding compound to be effective. All work areas were observed thoroughly swept by the end of the day. Sidewalks and curbs are maintained clean and free of construction debris. Water truck serviced the segment regularly while the wet vacuum sweeper was used half of the time.</p>	<p>Provide adequate and consistent misting during manhole collar demolition if paving is not going to occur the same day.</p>	<p>Contractor did not implement localized dust controls for manhole collar demolition even after being notified. This was a single occurrence.</p>

Air Quality Monitoring Results: A total of 9 samples were collected.

All samples were within criteria except for 5.

of Samples Collected: Asbestos 0 Total Dust 0 Dust 9 Lead 0

Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	02/04/04	18 th St. manhole collar demolition	1.619	0.25	No response. Single occurrence activity, not expected to be repeated.
Dust	02/05/04	19 th St. dry sweeping	0.583	0.25	Surface needs to be dry before paving
Dust	02/06/04	19 th St. dry sweeping	0.431	0.25	Surface needs to be dry before paving
Dust	02/09/04	18 th St. dry sweeping	0.980	0.25	Surface needs to be dry before paving
Dust	02/09/04	19 th St. dry sweeping	0.421	0.25	Surface needs to be dry before paving

* Only when exceeding Project Action Levels (PALs)

2. Noise/Vibration Monitoring	Remedial Direction	Contractor's Response
<p>Monitoring conducted for paving. All noise readings were within criteria. No vibration monitoring conducted this month.</p>	<p>None required at this time</p>	<p></p>

3. Soil Handling	Remedial Direction	Contractor's Response
<p>Stockpile generated from sidewalk work were covered if left overnight. Soils were re-used as backfill material the following day.</p>	<p>None required at this time.</p>	<p>None required at this time.</p>

4. Water Controls	Remedial Direction	Contractor's Response
<p>Contractor inspected catch basins before and after a rain event. No potential source for sediment run-off was observed on site. Dewatering of track way was initially discharged into storm drain.</p>	<p>Provide sediment control for dewatering prior to discharge or discharge into track drain.</p>	<p>Contractor complied after being notified.</p>

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

NCR B-008A Failure to provide submittals in a timely manner. Analytical results for import fill is outstanding	Contractor has yet to provide analytical results for 600 CM of import soil. Liquidated damages continue to be assessed
NCR B-007B Pavement demolition with no dust control.	Practice was not repeated.

6. Comments

Rain occurred mostly during construction hours, thus greatly reducing visible dust specially when some roads were unpaved. This segment is nearly completed therefore less dust generating activities were observed.



THIRD STREET LIGHT RAIL

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

Weather Conditions:

Mostly overcast, rain 40% of the time; Winds variable directions with gusts to 50mph

1. Dust Controls	Remedial Direction	Contractors Response
Occasional dust emissions observed this month due mainly to contractor's efforts for dust control and wet weather. Observed visible dust emissions from gusty winds blowing across dirty worksites and from demolition without use of localized dust control. Wet/vacuum sweeper truck and 3-wheel sweeper used very little at the end of the month	Increase use of water truck and wet vacuum sweeper. Improve site cleanliness to reduce visible emissions during windy periods. Implement localized dust control for demolition activities.	Water truck is making at least 3 passes per day. Localized dust control was implemented during demolition activity. Contractor has put moderate effort into site clean up.

Air Quality Monitoring Results: **A total of 55 samples were collected.** All results were within PALs with the exception of two.

of Samples Collected: 55 : **Asbestos: 12** **Total Dust: 8** **Dust: 27** **Lead: 8**

Sample*	Date	Location	Result	PAL	Contractor's Response
Total dust	2-12-04	23 rd St dirty work site	0.330	0.32	Contractor increased misting operations in this area.
Dust	2-12-04	23 rd St demolition	0.293	.250	Contractor began using localized dust control for demolition.

* Only when exceeding Project Action Levels (PALs)

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

3. Soil Handling	Remedial Direction	Contractor's Response
Stockpiles generally covered at the end of the day. Worksite and street cleanliness diminished toward the end of the month. Class 1 hazardous and Class 2 non-hazardous soil off hauled this month. Loaded trucks were covered with bill of lading and manifests correctly filled out.	Clean worksites and streets at least 3 times per day and once at the end of everyday with wet/vacuum sweeper truck to prevent trackout and associated visible emissions.	Wet/vacuum sweeper truck and 3-wheel sweeper not used in the last 10 days of the month. Contractor used push brooms and shovels to clean worksites and streets.

4. Water Controls	Remedial Direction	Contractor's Response
Fiber rolls installed at most active construction sites. Most fiber rolls are ripped or clogged .	Replace existing fiber rolls with new fiber rolls.	Contractor is in the process of replacing old fiber rolls.

5. <u>Non-Compliance Notices Issued:</u>	Contractor's Response
E-NCR C-009A issued on 2/12/04 for failure to implement localized dust control for demolition	Contractor implemented localized dust control for excavation and pavement demolition.

6. <u>Comments</u>
For the most part, Contractor responded to remedial directions and implemented appropriate mitigation controls. The wet weather helped significantly to reduce the dust emissions this month. With the exception a few isolated incidents, dust emissions generally low. Worksite and street cleanliness need improvement.



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment D Commercial Core (Jerrold to Donner Street) Monthly Summary for February 2004

Weather Conditions:

Mostly Overcast and Rain 40% of the time, winds variable directions gusts to 50mph

1. Dust Controls		Remedial Direction	Contractors Response		
<p>Overall dust suppression implemented effectively through most of the segment. Water truck used for most of the month to mist down worksites and streets. Visible dust emissions observed from traffic driving through dried up sediment at Carroll Ave. and demolition at the southern end of job. Overall, worksites and streets generally clean at the end of the day.</p>		<p>Clean up sediment at Carroll to prevent dust emissions from traffic. Promptly clean up track-out using wet/vacuum sweeper 3 times per day and once at the end of everyday. Increase use of water truck especially on windy days. Implement localized dust control for demolition.</p>	<p>Contractor is making at least 3 passes per day with water truck. Contractor used 3-wheel sweeper to clean track-out and worksites as needed but was out of service the last 10 days of the month. Localized dust control was implemented for demolition work as needed.</p>		
<p><u>Air Quality Monitoring Results: 49 samples collected. All except 2 were within PALs.</u> <u># of Samples Collected: 49 Asbestos: 0 Total Dust: 11 Dust : 27 Lead: 11</u></p>					
Sample*	Date	Location	Result	PAL	Contractor's Response
Total Dust	2/6/04	Carroll Ave and 3 rd St. Track out from soil area access	0.370	0.260	Increased misting and cleaning of area.
Total Dust	2/19/04	Carroll Ave. and 3 rd St Track out from soils area access	0.435	0.260	Increased misting and cleaning of area.
<p>* Only when exceeding Project Action Levels (PALs)</p>					
2. Noise/Vibration Monitoring		Remedial Direction	Contractor's Response		
<p>Noise Monitoring this month was within criteria. No vibration monitoring conducted.</p>		<p>None at this time.</p>	<p>None at this time.</p>		
3. Soil Handling		Remedial Direction	Contractor's Response		
<p>Stockpiles were generally covered most of the days. Soil stockpiles at the south end were left uncovered on numerous occasions. Trucks were covered with the exception of one event. Trucks hauling soils from Carroll yard were not covered.</p>		<p>Completely cover and secure all soil stockpiles at the end of every day. Cover all loaded haul trucks driving on city streets.</p>	<p>Contractor consistently covered stockpiles. Since 2/11/04, contractor has not off hauled any Class 2 soils. Contractor notified off-haul trucking company of the need to cover loaded haul trucks.</p>		
4. Water Controls		Remedial Direction	Contractor's Response		
<p>Contractor implemented Best Management Practices (BMP's) for erosion and sediment control. Fiber rolls and gravel bags adjacent to catch basins retain most of sediment before runoff enters catchbasins. Sediment runoff observed at Carroll Ave. Fiber rolls at the southern end job required replacement.</p>		<p>Prevent runoff on Carroll Ave by installing run off and sediment control measures around the soil handling area at Carroll Ave. Replace fiber rolls at the southern end of job.</p>	<p>Contractor has begun to improve sediment control near Carroll Ave soil handling area. Fibers rolls at Carroll were replaced as requested.</p>		
5. Non-Compliance Notices Issued; Contractor's Response					
<p>E-NCR D-014 issued on 2/19/04 for improperly covering stockpiles overnight</p>			<p>Contractor removed stockpile the following day.</p>		
<p>E-NCR D-015 issued on 2/20/04 for poor housekeeping near Wallace Ave.</p>			<p>Contractor cleaned up worksite and streets the following day.</p>		
6. Comments:					
<p>For the most part Contractor responded promptly to remedial directions and implemented appropriate mitigation controls. The wet weather helped significantly to reduce the dust emissions this month. Track out at Carroll yard contributes to dusty conditions at the southern end of the job. This area needs improvement.</p>					



THIRD STREET LIGHT RAIL

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

Monthly Summary for February 2004

Weather Conditions:

Mostly overcast, rain 40% of the time; Wind from various directions, gusts up to 50 mph.

1. Dust Controls		Remedial Direction	Contractors Response		
Overall dust suppression was implemented effectively through the month with the exception of dust produced by traffic over track out at the 101 north soil handling area. Also, dust emissions were observed during loading of demolition debris and a paint-grinding event.		Control track out onto 101 North. Provide localized dust control for demolition and all dust generating activities.	Contractor cleaned up track out and is checking for better ways to control track out onto 101 north. Contractor provided localized dust control upon request for the paint grinding and demolition events.		
<p>Air Quality Monitoring Results: A total of 25 samples were collected. All results were within PALs with the exception of 3</p> <p># of Samples Collected: 25: Asbestos_NA Total Dust_12_ Dust_13_ Lead_0</p>					
Sample*	Date	Location	Result	PAL	Contractor's Response
Total Dust	2/06/04	101 N soil handling area exit onto 101 N.	0.960	0.260	Contractor cleaned up track out.
Dust	2/13/04	South of Donner Paint grinding	0.960	0.150	Contractor implemented localized dust controls.
Dust	2/13/04	South of Egbert Loading demo debris	0.178	0.150	Contractor implemented localized dust controls
* Only when exceeding Project Action Levels (PALs)					
2. Noise/Vibration Monitoring		Remedial Direction	Contractor's Response		
Noise monitoring results were all within project criteria. No Vibration monitoring conducted this month		None required at this time.	None required at this time.		
3. Soil Handling		Remedial Direction	Contractor's Response		
Track out observed on 101 North and occasionally observed on 3 rd street and Bayshore Blvd. Trucks transporting soil were covered.		Implement best management practices to reduce/ eliminate track out. Clean track out on a daily basis.	Contractor is checking for better ways to control track out onto 101 north. Contractor cleaned up track out on 3 rd street and Bayshore Blvd. daily.		
4. Water Controls		Remedial Direction	Contractor's Response		
Sediment runoff observed during one heavy rain event at the southern end of the retaining wall # 6 construction area. All other areas protected from sediment erosion and runoff.		Clean up sediment runoff and implement best management practices for erosion control/ protection.	Contractor cleaned up sediment runoff from the retaining wall # 6 construction area and installed erosion protection at the bottom of the construction area		
5. Non-Compliance Notices Issued: Contractor's Response					
E-017; Failure to control dust generated due to track out.		Contractor cleaned up the track out and investigating better ways to control track out at the 101 north soil handling area.			
6. Comments					
For the most part, Contractor responded promptly to remedial directions and implemented appropriate mitigation controls. The wet weather helped significantly to reduce the dust emissions this month. The wet weather has helped significantly to reduce the dust emissions this month. Track out control needs improvement.					



THIRD STREET LIGHT RAIL

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

Monthly Summary for February 2004

Weather Conditions:

Mostly overcast, 40% rain, winds variable directions, gusts up to 50 MPH

1. Dust Controls		Remedial Direction	Contractors Response		
Overall dust suppression was implemented effectively through the month. Dust emissions were observed during a track slab cleaning event using an air compressor. Water truck sprayed streets at least 3 times a day on non-rainy days		Manually preclean track slab before the use of compressed air for final cleaning.	Contractor manually pre cleaned track slabs before using compressed air to perform the final cleaning.		
Air Quality Monitoring Results: A total of 32 samples were collected. All results except one were within PALs.					
# of Samples Collected: 32 Asbestos: 0 Total Dust: 08 Dust: 24 Lead: 0					
Sample*	Date	Location	Result	PAL	Contractor's Response
Dust	2/11/04	Southbound Bayshore Blvd. Use of air compressor without manual clean up	0.183	0.150	Contractor manually pre-cleaned the track slab before using the air compressor.
* 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		
Soil stockpiles were covered. All trucks transporting soil were covered except one. Track out generated was cleaned daily.		Cover all trucks carrying soil on city streets.	Contractor contacted all trucking subcontractors and instructed them to cover all trucks carrying soil.		
4. Water Controls		Remedial Direction	Contractor's Response		
Adequate erosion control and protection measures were in place for all but one heavy rain event. No source erosion and run off controls were in place for this event.		Install and maintain all necessary sediment erosion control/protection prior to and after a rain event.	Contractor installed all necessary sediment erosion control/protection along the project alignment.		
5. Non-Compliance Notices Issued: Contractor's Response					
F - 003; 1-Uncovered truck carrying soil.		Contractor contacted all trucking subcontractors and instructed them to cover all trucks carrying soil.			
F - 004; Failure to maintain localized dust control for all dust generating activities.		Contractor manually pre cleaned the track slab before using the air compressor			
F - 005; Failure to maintain contractor's SWPPP.		Contractor installed and maintained source erosion and run off controls.			
6. Comments					
For the most part, Contractor responded promptly to remedial directions and implemented appropriate mitigation controls. The wet weather helped significantly to reduce the dust emissions this month. Contractor kept up on the daily housekeeping and watered down the streets on a regular basis on dry days.					



THIRD STREET LIGHT RAIL

Environmental Monitoring Report Segment H (Substations TP SCADA)

Monthly Summary for February 2004

Weather Conditions:

Mostly overcast, rain 40% of reporting period; Winds; variable dir 50mph

1. Dust Controls		Remedial Direction	Contractors Response		
No visible dust emissions observed from soil handling or excavation activities. No demolition was conducted this month. All work areas including sidewalks and stockpiles are fenced. Occasional dust emissions observed at Illinois street from over dirt accumulated on the street. The water truck made regular passes to keep Illinois Street wet during construction hours. The vacuum sweeper serviced the segment when needed.		Increase trips by the water truck on dry days. Wet sweep accumulation of dirt and gravel on the streets regularly.	Contractor complied after being notified.		
<u>Air Quality Monitoring Results: None collected.</u>					
<u># of Samples Collected: 0 Asbestos: 0 Total Dust: 0 Dust: 0 Lead: 0</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 and vibration monitoring conducted this month		None required at this time	None required at this time		
3. Soil Handling		Remedial Direction	Contractor's Response		
Illinois: Stockpiles are observed covered at the end of the day. Soil surplus was hauled off the project this month.		None required at this time	None required at this time.		
4. Water Controls		Remedial Direction	Contractor's Response		
Illinois: All catch basins had a fiber roll in place prior to a rain event. Sediment accumulation around the fiber roll was scooped after a rain event. No issues at Phelps and Keith.		None required at this time.	None required at this time.		
5. Non-Compliance Notices Issued: Contractor's Response					
None Issued			NA		
6. Comments					
Most of the work at Illinois substation is re-building RMC sidewalk. Once sidewalk is fully complete, accumulation of dirt on the streets will be reduced since work will be inside the lot. At Phelps substation, the structure is under construction; therefore no more earthwork activities are expected. Keith substation has not commenced structure construction. PG & E has been working on site to relocate their utilities.					