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VOTING MEMBERS

Bob Woerner City of Livermore

Jerry Pentin City of Pleasanton

Donna Cabanne Sierra Club

David Tam Northern California Recycling Association

<u>NON-VOTING</u> <u>MEMBERS</u>

Sarah Fockler Waste Management Altamont Landfill and Resource Recovery Facility

Arthur Surdilla Alameda County

Robert Cooper Altamont Landowners Against Rural Mismanagement (ALARM)

<u>STAFF</u>

Judy Erlandson City of Livermore Public Works Manager

COMMUNITY MONITOR COMMITTEE Altamont Landfill Settlement Agreement

*** The Public is Welcome to Attend***

AGENDA

DATE: Wednesday, July 13, 2016

TIME: **4:00 p.m.**

PLACE: City of Livermore

Maintenance Services Division 3500 Robertson Park Road

- Call to Order
- 2. Introductions
- 3. Roll Call
- 4. Approval of Minutes (Minutes from April 13, 2016)
- 5. Open Forum This is an opportunity for members of the audience to

comment on a subject not listed on the agenda.

No action may be taken on these items.

6. Matters for Consideration

- 6.1 Responses to Committee Member Questions:
 Concentrations of Naturally Occurring Groundwater
 Contaminants; Purging Requirements in Tentative
 Water Board Waste Discharge Requirements (ESA)
- 6.2 Groundwater Data from Resampled Wells (ESA)
- 6.3 Update re Fill Area 2 Status (ESA)
- 6.4 Reports from Community Monitor (ESA)
- 6.5 Status of Five-Year Permit Review (ESA)
- 6.6 Reducing Truck Traffic Counts (ESA)
- 6.7 Announcements (Committee Members)
- 6.8 Agreement for Consulting Services with ESA (Staff)

7. Agenda Building

This is an opportunity for the Community Monitor Committee Members to place items on future agendas.

8. Adjournment

The next regular Community Monitor Committee meeting is tentatively scheduled to take place at 4:00 p.m. on **October 12, 2016** at 3500 Robertson Park Road, Livermore.

Informational Materials:

- Community Monitor Roles and Responsibilities
- List of Acronyms
- Draft Minutes of April 13, 2016
- Reports from ESA and City of Livermore staff

City of Livermore TDD (Telecommunications for the Deaf) (925) 960-4104

PURSUANT TO TITLE II OF THE AMERICANS WITH DISABILITIES ACT (CODIFIED AT 42 UNITED STATES CODE SECTION 12101 AND28 CODE OF FEDERAL REGULATIONS PART 35), AND SECTION 504 OF THE REHABILITATION ACT OF 1973, THE CITY OF LIVERMORE DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, RELIGION, NATIONAL ORIGIN, ANCESTRY, SEX, DISABILITY, AGE OR SEXUAL ORIENTATION IN THE PROVISION OF ANY SERVICES, PROGRAMS, OR ACTIVITIES. TO ARRANGE AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS PUBLIC MEETING, PLEASE CALL (925) 960-4586/4582 (VOICE) OR (925) 960-4104 (TDD) AT LEAST 72 HOURS IN ADVANCE OF THE MEETING.

The Community Monitor Committee Agenda and Agenda Reports are prepared by City staff and are available for public review on the Thursday prior to the Community Monitor Committee meeting at the Maintenance Service Center, located at 3500 Robertson Park Road, Livermore. The Community Monitor Committee Agenda is available for public review at the Maintenance Service Center, 3500 Robertson Park Road, Livermore, and on the Community Monitor Committee web site, http://www.altamontcmc.org.

Under Government Code §54957.5, any supplemental material distributed to the members of the Community Monitor Committee after the posting of this Agenda will be available for public review upon request at 3500 Robertson Park Road., Livermore or by contacting us at 925-960-8000.

If supplemental materials are made available to the members of the Community Monitor Committee at the meeting, a copy will be available for public review at the Maintenance Service Center, at 3500 Robertson Park Road, Livermore.

Community Monitor Committee Roles and Responsibilities

Below is a summary of the duties and responsibilities of the Community Monitor Committee and related parties as defined by the Settlement Agreement between the County of Alameda, the City of Livermore, the City of Pleasanton, Sierra Club, Northern California Recycling Association, Altamont Landowners Against Rural Mismanagement, and Waste Management of Alameda County, Inc. The purpose of this document is to aid in determining if discussion items are within the scope of the Community Monitor Committee.

Community Monitor Committee's Responsibilities

Under Settlement Agreement section 5.1.2, the CMC is responsible for supervising and evaluating the performance of the Community Monitor as follows:

- A. Interviewing, retaining, supervising, overseeing the payment of, and terminating the contract with the Community Monitor;
- B. Reviewing all reports and written information prepared by the Community Monitor; and
- C. Conferring with the Community Monitor and participating in the Five Year Compliance Reviews (next due in 2015) and the Mid-Capacity Compliance Review (due when the new cell is constructed and capacity is close to 50%, unlikely to occur before 2028) (Condition number 6 of Exhibit A of the Agreement).

Community Monitor's Responsibilities

The Community Monitor supplements and confirms the enforcement efforts of the County Local Enforcement Agency. The Community Monitor is primarily responsible for:

- A. Reviewing any relevant reports and environmental compliance documents submitted to any regulatory agency (sections 5.7.1, 5.7.2, and 5.7.3);
- B. Advising the public and the Cities of Livermore and Pleasanton about environmental and technical issues relating to the operation of the Altamont Landfill via the CMC (section 5.7.4);
- C. Presenting an annual written report summarizing the Altamont Landfill's compliance record for the year to the CMC and submitting the report to Alameda County and the Cities of Livermore and Pleasanton (section 5.7.5);
- D. Notifying the County Local Enforcement Agency and Waste Management of Alameda County of any substantial noncompliance findings or environmental risk (section 5.7.6);
- E. Monitoring and accessing the Altamont Landfill site and conducting inspections (section 5.7.7):
- F. Counting trucks arriving at the Altamont Landfill (section 5.7.8); and
- G. Reviewing waste testing data and source information (section 5.7.9).

Waste Management of Alameda County's Responsibilities

Per the settlement agreement, Waste Management is responsible for:

- A. Paying for the services of the Community Monitor, based on an annual cost estimate (section 5.3.3).
- B. Paying an additional 20% over the annual cost estimate if warranted based on "credible evidence" (section 5.3.3).

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List of Acronyms

Below is a list of acronyms that may be used in discussion of waste disposal facilities. These have been posted on the CMC web site, together with a link to the CIWMB acronyms page: http://www.ciwmb.ca.gov/LEACentral/Acronyms/default.htm.

Updates will be provided as needed. This list was last revised on September 25, 2013.

Agencies

ACWMA - Alameda County Waste Management Authority

ANSI - American National Standards Institute

ARB or CARB - California Air Resources Board

ASTM – American Society for Testing and Materials

BAAQMD - Bay Area Air Quality Management District

CDFG or DFG - California Department of Fish and Game

CDRRR - California Department of Resources Recycling and Recovery, or CalRecycle

CIWMB - California Integrated Waste Management Board (predecessor to CDRRR - see above)

CMC - Community Monitor Committee

DWR - Department of Water Resources

LEA – Local Enforcement Agency (i.e., County Environmental Health)

RWQCB - Regional Water Quality Control Board

SWRCB - State Water Resources Control Board

Waste Categories

C&D – construction and demolition

CDI - Construction, demolition and inert debris

FIT – Fine materials delivered to the ALRRF, measured by the ton.

GSET – Green waste and other fine materials originating at the Davis Street Transfer Station, for solidification, externally processed.

GWRGCT - Green waste that is ground on site and used for solidification or cover (discontinued January 2010)

GWSA - Green waste slope amendment (used on outside slopes of the facility)

MSW - Municipal solid waste

RDW - Redirected wastes (received at ALRRF, then sent to another facility)

RGC – Revenue generating cover

Water Quality Terminology

MCL – Maximum Contaminant Level – The legal threshold limit on the amount of a substance that is allowed in public water systems under the Safe Drinking Water Act.

Substances or Pollutants

ACM – asbestos-containing material

ACW – asbestos-containing waste

ADC - Alternative Daily Cover. For more information: http://www.ciwmb.ca.gov/lgcentral/basics/adcbasic.htm

BTEX – benzene, toluene, ethylbenzene, and xylene (used in reference to testing for contamination)

CH4 - methane

CO2 - carbon dioxide

DO - dissolved oxygen

HHW - household hazardous waste

LFG - landfill gas

LNG - liquefied natural gas

MEK - methyl ethyl ketone

MIBK - methyl isobutyl ketone

MTBE - methyl tertiary butyl ether, a gasoline additive

NMOC - Non-methane organic compounds

NTU - nephelometric turbidity units, a measure of the cloudiness of water

Rev. 9/25/2013

RL – reporting limit: in groundwater analysis, for a given substance and laboratory, the concentration above which there is a less than 1% likelihood of a false-negative measurement.

TCE - Trichloroethylene

TDS - total dissolved solids

TKN – total Kjeldahl nitrogen

TSS - Total Suspended Solids

VOC - volatile organic compounds

Documents

CCR - California Code of Regulations (includes Title 14 and Title 27)

ColWMP - County Integrated Waste Management Plan

CUP - Conditional Use Permit

JTD – Joint Technical Document (contains detailed descriptions of permitted landfill operations)

MMRP - Mitigation Monitoring and Reporting Program

RDSI - Report of Disposal Site Information

RWD - Report of Waste Discharge

SRRE - Source Reduction and Recycling Element (part of ColWMP)

SWPPP - Stormwater Pollution Prevention Plan

WDR - Waste Discharge Requirements (Water Board permit)

General Terms

ALRRF - Altamont Landfill and Resource Recovery Facility

ASP – Aerated Static Pile composting involves forming a pile of compostable materials and causing air to move through the pile so that the materials decompose aerobically.

BGS - below ground surface

BMP - Best Management Practice

CEQA - California Environmental Quality Act

CQA - Construction Quality Assurance (relates to initial construction, and closure, of landfill Units)

CY - cubic yards

GCL - geosynthetic clay liner

GPS - Global Positioning System

IC engine - Internal combustion engine

LCRS - leachate collection and removal system

LEL - lower explosive limit

mg/L - milligrams per liter, or (approximately) parts per million

ug/L - micrograms per liter, or parts per billion

PPE - personal protective equipment

ppm, ppb, ppt – parts per million, parts per billion, parts per trillion

RAC – Reclaimable Anaerobic Composter – a method developed by Waste Management, Inc., to place organic materials in an impervious containment, allow them to decompose anaerobically, and extract methane during this decomposition.

SCF – Standard cubic foot, a quantity of gas that would occupy one cubic foot if at a temperature of 60°F and a pressure of one atmosphere

SCFM - standard cubic feet per minute, the rate at which gas flows past a designated point or surface

STLC – Soluble Threshold Limit Concentration, a regulatory limit for the concentrations of certain pollutants in groundwater

TTLC – Total Threshold Limit Concentration, similar to STLC but determined using a different method of analysis TPD, TPM, TPY – Tons per day, month, year

WMAC - Waste Management of Alameda County



COMMUNITY MONITOR COMMITTEE

Altamont Landfill Settlement Agreement

Minutes of April 13, 2016

DRAFT

1. Call to Order

The meeting was called to order at 4:09 p.m.

2. Roll Call

Members Present: Bob Woerner; Donna Cabanne; David Tam; Jerry Pentin;

Sarah Fockler; Arthur Surdilla

Absent: Robert Cooper, Altamont Landowners Against Rural

Mismanagement

Others: Marisa Gan, City of Livermore Recycling Specialist;

Michael Burns, Project Manager, ESA

Staff: Judy Erlandson, City of Livermore Public Works

Department; Kelly Runyon, Community Monitor

3. Introductions

Those in attendance introduced themselves.

4. Approval of Minutes

The approval of the January 2016 minutes was deferred to follow item 6.6 in this meeting, to provide additional time for review.

5. Open Forum

There was no Open Forum discussion.

6. Matters for Consideration

6.1 Responses to Committee Member Questions

Methane Testing – Mr. Runyon noted that CalRecycle has not yet run their independent test of methane found at perimeter probes, to determine if that methane is naturally occurring, as previous tests by ALRRF have found. Ms. Fockler confirmed this.

Conservation Plan Area (CPA) Reports – Mr. Runyon reported that ALRRF has not received comments from regulatory agencies on the initial CPA report. In response to a question from Mr. Pentin, Ms. Fockler added that given the amount of time that has passed since the initial report was submitted, the ALRRF is not expecting comments. She added that the second report, covering 2015, is not yet complete but will be forwarded to the agencies as soon as it is ready.

6.2 Update re Fill Area 2 Status

Mr. Runyon stated that Phase 1 of the liner is fully built and the area is not yet being used; some paving work remains to be done. He added that some erosion has occurred due to wet weather. This is expected to be repaired before the area begins to be used, by the Phase 2 contractor, who will begin work soon.

6.3 Reports from Community Monitor

In reviewing the monthly site visit reports, Mr. Runyon noted the following: With the cessation of refuse deliveries from the San Francisco transfer station, the need for truck traffic counts (to check compliance with Use Permit limits) is questionable. He recommended that they be discontinued. After some discussion. Committee members agreed to agendize this item for a decision at the next Committee meeting. Ms. Cabanne asked about the total count in a typical day. Mr. Runyon stated that he could make an estimate based on incoming tonnage, and use transfer truck traffic counts reported by the ALRRF. During this past winter's heavy rains, the silt-trapping features in the channel upstream of the mitigated wetland worked well but were damaged and will need repair. Ms. Cabanne asked what might be done with silt that would be removed from the channel; Mr. Runyon stated that it might be used to repair the channel, or as landfill cover. He agreed to continue to check the area. Mr. Pentin asked if repair would ultimately be necessary, and what actions need to be taken. Ms. Fockler stated that the design of repair and other improvements to the area is under way, with repairs to be done this summer.

Ms. Cabanne asked if the seagulls present a hazard to the public, since the depredation approach has not been effective thus far. Mr. Runyon pointed out that the landfill's remote location minimizes the birds' impact on the general public; and he indicated that there are other tactics that can be tried to reduce the birds' presence at the site. Ms. Fockler stated that dogs are not permitted at the landfill, and that a former staff member had tried falconry which is very costly if hired professionally. Drones and the use of loud sound is also being considered.

Mr. Runyon also referred to Figure 6.3-2, the tonnage bar chart, to point out the effect of Recology's having discontinued deliveries from the City of San Francisco, as well as the unusually large amount of special waste delivered in February, mainly from a single project in the East Bay. Mr. Tam asked about the date that San Francisco waste was discontinued. Ms. Fockler stated that it was in the first week of January.

6.4 Review of Reports provided by ALRRF

<u>CUP Mitigation Monitoring and Reporting Program annual summary for 2015</u> – Mr. Runyon noted minor issues regarding several requirements and/or the way they have been addressed. In response to Committee members' questions, he stated that the first of these points, regarding the required level of recycling for San Francisco, may be moot if two lawsuits objecting to San Francisco's refuse

being taken elsewhere by Recology are not successful (i.e. if SF refuse does not return to the ALRRF). Mr. Pentin and other Committee members asked that the Community monitor not pursue these points further unless future circumstances warrant. Mr. Tam noted that a portion of the solid waste generated in San Francisco is disposed in other landfills without being handled by Recology.

The second point referenced post-construction compliance reports for Fill Area 2; none have been received by the Community Monitor. Ms. Fockler stated that no reports have been completed as yet; when completed, if requested they will be provided.

The third point referenced a requirement for Water Board concurrence that Bethany reservoir would not be impacted by landfill leachate. Mr. Runyon pointed out that this is an unusual requirement, since the County cannot compel the Water Board to address the question; and Ms. Fockler stated that the ALRRF does not have such concurrence from the Water Board.

<u>Air Emissions Report</u> – Mr. Runyon mentioned that the landfill continues to install landfill gas wells annually, and that this continues to be necessary to extract all available landfill gas. He also corrected a typographical error by completing the sentence at the bottom of page 30 in the agenda packet, and pointed out that the diesel-powered tippers owned by Recology were recently removed from the site. Referring to the graph of landfill gas utilization (Figure 6.4-1), he mentioned that the total daily flow of landfill gas declined from June through November of 2015, but this can be expected to increase in 2016 when additional wells are brought on line. He also noted that there were no PG&E power outages that affected the use of equipment; and all of the major gasconsuming devices that were tested, passed their emissions tests.

Groundwater Monitoring Report – Mr. Runyon mentioned that the current report included the 5-year Constituents of Concern, and he summarized the findings in that area. Mr. Woerner asked if the increased concentrations of certain inorganics were significantly higher than in the past. Mr. Runyon stated that statistical significance may be impossible to establish because the tests are so infrequent. Mr. Burns added that these compounds tend to occur naturally in coastal California, and a recent increase in testing efforts has found them occurring naturally in more locations than previously known. Mr. Woerner asked to see a graph of the concentrations in question. Mr. Runyon suggested a chart that shows typical coast-range concentrations and compares them to the ALRRF data (past, present and future). Mr. Pentin asked if there is a way to determine whether these samples originate naturally or from the landfill. Mr. Burns responded that this can be addressed by checking to see if samples included other substances that could only have originated from the landfill. Mr. Runyon noted that the semivolatile organic compounds and herbicides would provide that indication, and levels of both of these types of substances were extremely low. One detected herbicide, dinoseb, was noteworthy because the landfill had received some dinoseb-contaminated material in 2014, and dinoseb

did appear in 2015 samples. Mr. Runyon noted that it had also appeared in samples taken in 2010, at a similar level.

Mr. Runyon stated that the regular semiannual test results indicated the continuing presence of VOC's at three wells with a long history of these detections. He added that the Langan study of the potential effect of nearby shallow gas wells on the quality of this groundwater found that it would take at least a year, and possibly much longer, to be measurable in the groundwater samples.

6.5 Status of Five-Year Permit Review

Mr. Runyon stated that the critical-path item for completion of the permit review is the issuance of revised Waste Discharge Requirements (WDRs) by the Central Valley Regional Water Board (Board), and that Board had issued tentative WDR's for consideration at their April meeting. He indicated that these new WDR's are extremely stringent, and the supporting discussion indicates non-compliance in several areas that had not been flagged previously in Water Board staff public communications with the ALRRF. Ms. Fockler added that due to continuing discussions with Water Board staff, the approval of the tentative WDRs had been postponed to their June meeting. Ms. Cabanne noted that the April Board meeting will be in Fresno, making access from the Livermore area difficult; and Mr. Tam asked if the Board ever meets in the Sacramento area. Mr. Runyon responded that they do often meet at their office location in Rancho Cordova, a suburb of Sacramento.

Mr. Runyon also noted that the proposed future compost site at ALRRF is now being planned for land that does not contain refuse, rather than current or former disposal-site land. Consequently, requirements for the compost site have been removed from the tentative WDRs. Ms. Cabanne asked if planning for the composting operation is continuing to go forward. Ms Fockler said that it is, and that by putting it on native ground (not on landfill), water-related permitting would be handled by the State Water Resources Control Board rather than the Regional Water Board.

In discussion, Ms. Cabanne expressed support for the tentative WDRs that call for more and better-distributed groundwater monitoring (98a and 98b) and for more stringent well purging when monitoring (129). She also asked for clarification on the proposed purging-related requirements.

6.6 2015 Annual Report

Revisions to the report, in response to previous Committee comments, were presented. Approval of the report was moved by Mr. Woerner, seconded by Ms. Cabanne, and passed unanimously.

4 Approval of Minutes

One correction to the minutes was requested by Mr. Tam: to use the full name of the Regional Water Board (Central Valley Regional Water Quality Control Board)

in item 6.2, where it first occurs. With that correction, approval was moved by Mr. Tam and seconded by Mr. Woerner; the minutes were approved 4-0.

6.7 Announcements

Mr. Tam discussed Committee member stipends. Per an email from the County Supervisor Hagerty's Chief of Staff, the Committee Members' sign-in sheet will be used to document attendance for stipend purposes. In addition, Mr. Tam noted that documentation of prior attendance back to July of 2014 will be used to prepare stipends retroactive to that time.

6.8 Agreement for Consulting Services with ESA
The Committee agreed to extend the current contract for an additional three years, as the contract provides.

7. Agenda Building

As noted in Item 6.3, the continuation and frequency of truck traffic counts will be discussed.

8. Adjournment

The meeting was adjourned at 5:19 p.m.

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memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Michael Burns and Kelly Runyon

subject CMC Meeting of 7/13/16 - Agenda Item 6.1 - Responses to Committee Member Questions:

• Concentrations of Naturally Occurring Groundwater Contaminants

Purging Requirements in Tentative Water Board Waste Discharge Requirements

Concentrations of Naturally Occurring Groundwater Contaminants

In the first round of the recent 5-year constituent of concern (COC) sampling event in late 2015, antimony, arsenic, and cyanide were reported in some samples from Wells MW-5A, LS2, VD2, and E-03A at concentrations exceeding Maximum Contaminant Levels (MCLs or Primary Drinking Water Standards). As noted during the April 13, 2016, meeting, all of these constituents also occur naturally. The ALRRF Community Monitor Committee requested information on the naturally-occurring background levels.

The table below summarizes the MCLs, background concentrations, and the reported concentrations of antimony, arsenic, and cyanide in the wells of interest. It is important to note that MCLs are human health risk-based regulatory drinking water standards requiring water purveyors to comply at the tap. If a water purveyor pumps groundwater to be used as drinking water, then that water purveyor must treat that water so that all constituents are below their respective MCLs.

MCLs are not groundwater regulatory standards. However, MCLs do get used as screening levels for constituent concentrations in groundwater. The concept is that if the concentration of a given constituent is below the MCL while in groundwater, then it surely would be below other action levels and no action would be needed. If the concentration of a given constituent is above the MCL, then groundwater may or may not require comparison to other action levels and may or may not require action depending on the location of the groundwater, the intended use, basin water quality objectives, and other criteria.

Because the MCLs are designed to reduce the risk to humans from their drinking water, they do not necessarily account for the fact that some constituents occur naturally in the environment. In California, antimony, arsenic, and cyanide all occur naturally. The U.S Air Force collated background soil and groundwater inorganic chemical data from 14 air force bases within 10 counties in California (Hunter et al, 2005). The dataset includes 10,415 soil samples from 3,883 boreholes and 5,071 groundwater samples from 1,307 monitoring wells. The results were processed using statistical analysis yielding groundwater background data. The background data for antimony, arsenic, and cyanide are summarized in the table below. The statistical calculation of percentiles is used to screen out anomalously high values.

In the case of antimony and arsenic, the MCL concentrations cited below are lower than the background concentration levels. As a consequence, depending upon a given site's location, the concentrations of antimony and arsenic may naturally exceed MCLs. This condition is particularly true for the Coast Ranges geomorphic province where the Altamont Landfill is located. Serpentinite commonly occurs within the Coast Ranges both at the surface and concealed at depth. Serpentinite is known to contain both antimony and arsenic. Antimony and mercury deposits associated with serpentinite were actively mined in the Coast Ranges in Santa Clara, San Benito, and Merced Counties as far back as 1870 (Bailey and Myers, 1942). Arsenic occurs as a trace metal in

serpentinite and other ultrabasic (containing iron and magnesium, with little or no silica) rocks (Welch et al, 1988).

Some wells at the ALRRF were also resampled and analyzed for cyanide to verify that the prior detection s were likely due to laboratory cross-contamination. It should be noted that cyanide also occurs naturally. Cyanide is known to be produced by many organisms, including plants, bacteria, fungi, algae, and some animals (Kamyshny, 2013). Consequently, cyanide can accumulate in sediments and subsequently enter groundwater.

		Antimony	Arsenic	Cyanide
MCLs		6	10	150
Do alvanous d	50 th	nd (~26)	nd(~3)	nd(~10)
Background Percentiles	95 th	146	35	12
Percentnes	99 th	190	140	30
5-Year Sampling Event				
MW-5A		9.4	120	<10
LS2		26	190	8.2
VD2		1.4	14	4.1
E-03A		0.54	1.3	23

Notes:

All concentrations in micrograms per liter

 $\label{eq:mcls} MCLs = maximum \ contaminant \ levels \ also \ known \ as \ primary \ drinking \ water \ standards \ Bold \ concentrations \ exceed \ the \ MCL$

References

Bailey, Edgar M. and W. Bradley Myers, 1942, *Quicksilver and Antimony Deposits of the Stayton District*, USGS Bulletin 931-O

Hunter, Philip M., Brian K. Davis, and Frank Roach, 2005, *Inorganic Chemicals in Groundwater and Soil: Background Concentrations at California Air Force Bases*, March 10

Kamyshny A. Jr., H. Oduro, Z. F. Mansaray, and J. Farquhar, 2013, Hydrogen Cyanide Accumulation and Transformations in Non-Polluted Salt Marsh Sediments, in Aquatic Geochemistry 19:97-113

Welch, Alan H., Michael S. Lico and Jennifer L. Hughes, 1988, Arsenic in Ground Waters of the Western United States, Groundwater, Vol. 26, No. 3, May-June

Purging Requirements in Tentative Water Board Waste Discharge Requirements

At the April 13 Committee meeting, Ms. Cabanne requested additional information that would describe the basis for the Central Valley Regional Water Quality Control Board's concern about the purging that is done prior to sampling of ALRRF monitoring wells. Purging is the removal of all of the water that was present within the well casing, prior to sampling, so that the sample is taken from groundwater that was outside of the well – in the surrounding rock – immediately before the start of the sampling process.

Based on documents reviewed while tracking the development of new Waste Discharge Requirements for the landfill, the primary concern of Water Board staff appears to have been that low-flow purging, as practiced by

SCS Engineers when sampling at the ALRRF, might not remove all of the stale water in the well before the sample is taken. This could result in samples that contain water that was exposed to the air within the well casing for an extended period of time. During that time, some VOC's might partially or completely evaporate, and other compounds might oxidize or react to form substances not actually present in the groundwater.

However, low-flow purging is necessary to avoid agitating the contents of the well, which could suspend silt that would interfere with laboratory analyses. SCS has explained their processes at the ALRRF¹, and agreed to add further detail to their field data sheets to better document the amount of water removed during purging. In addition, the ALRRF has stated² that it will prepare an amendment to its Sampling and Analysis Plan to provide a more detailed description of the purging and sampling processes.

¹ April 5, 2016 letter from SCS Engineers to ALRRF: Response to January 22, 2016 letter from RWQCB. Source: GeoTracker web site.

² May 25, 2016 letter to RWQCB from ALRRF: Response to April 14, 2016 letter from RWQCB. Source: GeoTracker web site.

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1425 N. McDowell Blvd Suite 200 Petaluma, CA 94954 707.795.0900 phone 707.795.0902 fax

memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Michael Burns

subject CMC Meeting of 7/13/16 - Agenda Item 6.2 - Groundwater Data from Resampled Wells

In the first round of the recent 5-year constituent of concern (COC) sampling event in late 2015, certain contaminants were found in samples from four wells. These wells were resampled, and the results recently became available. The resampling found low levels of a few contaminants at 3 of the 4 wells. Some were the same as before; some were different; most could have originated from laboratory contamination; and none are primary constituents of landfill gas or leachate. Future samples at these wells should be watched closely for clear indications of a leachate or landfill gas release, but at this time we see no reason to conduct additional testing or other special efforts. Further detail is provided below.

Well E-03A: The earlier cyanide detection was not confirmed by the resampling event. The laboratory concluded it was a laboratory error. This is a reasonable conclusion since cyanide had not been previously detected in this well. As a side note, cyanide does occur naturally. Almonds, millet sprouts, lima beans, soy, spinach, bamboo shoots, and cassava have low levels of cyanide. Additionally, cyanide is found in most any fruits that have a pit, or core, like cherries, apricots, and apples. Cyanide can also be produced by certain bacteria, fungi, algae, and as a by-product of industrial manufacturing and waste. It is possible that landfilled vegetable waste matter may cause an occasional low-level detection. Note that the detections were below the action level.

Well E-05: The laboratory reanalyzed the initial sample and came up with a lower result, approaching nearly an order of magnitude lower. The laboratory concluded that laboratory cross-contamination had occurred during the original extraction step. Complicating the results was the detection of bis(2-ethylhexyl)phthalate in some method, trip, and/or field blanks. Phthalates, particularly bis(2-ethylhexyl)phthalate, have long been problematic in sampling programs. As a plasticizer, phthalates are present in low levels almost everywhere in the man-made environment, including both the waste disposed of at the landfill, the equipment used to sample the wells, and the equipment used in the laboratory to analyze the samples. The detection of bis(2-ethylhexyl)phthalate is routinely considered suspect and unreliable.

The detection of acetophenone was confirmed by the resampling event. Note that the detection is an estimated concentration below the reporting limit but above the method limit. This means that the compound is present at such a low level that the actual concentration is uncertain. Note also that the compound was not previously detected, it has no action level, it occurs naturally in food, and it is actually used as a food additive. At this stage, future sampling results would be needed to evaluate whether this single detection is an issue of concern.

Well MW-5A: The issue of phthalates detected in this well are similar to those of Well E-05, discussed above. Note that the initial sample detected 2.5 µHg/L, and then the resamples detected 46 µHg/l and then 3.2 µHg/L. This lack of

consistent results supports the conclusion that there are multiple sources of phthalates and phthalate results should be considered suspect and unreliable. Order of magnitude concentration changes in a single well sampling event would not be expected if derived from landfill leachate.

Well MW-6: This well also had issues with the detection of phthalates similar to those discussed above.

memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Kelly Runyon

subject CMC Meeting of 7/13/16 - Agenda Item 6.3 - Update re Fill Area 2 Status

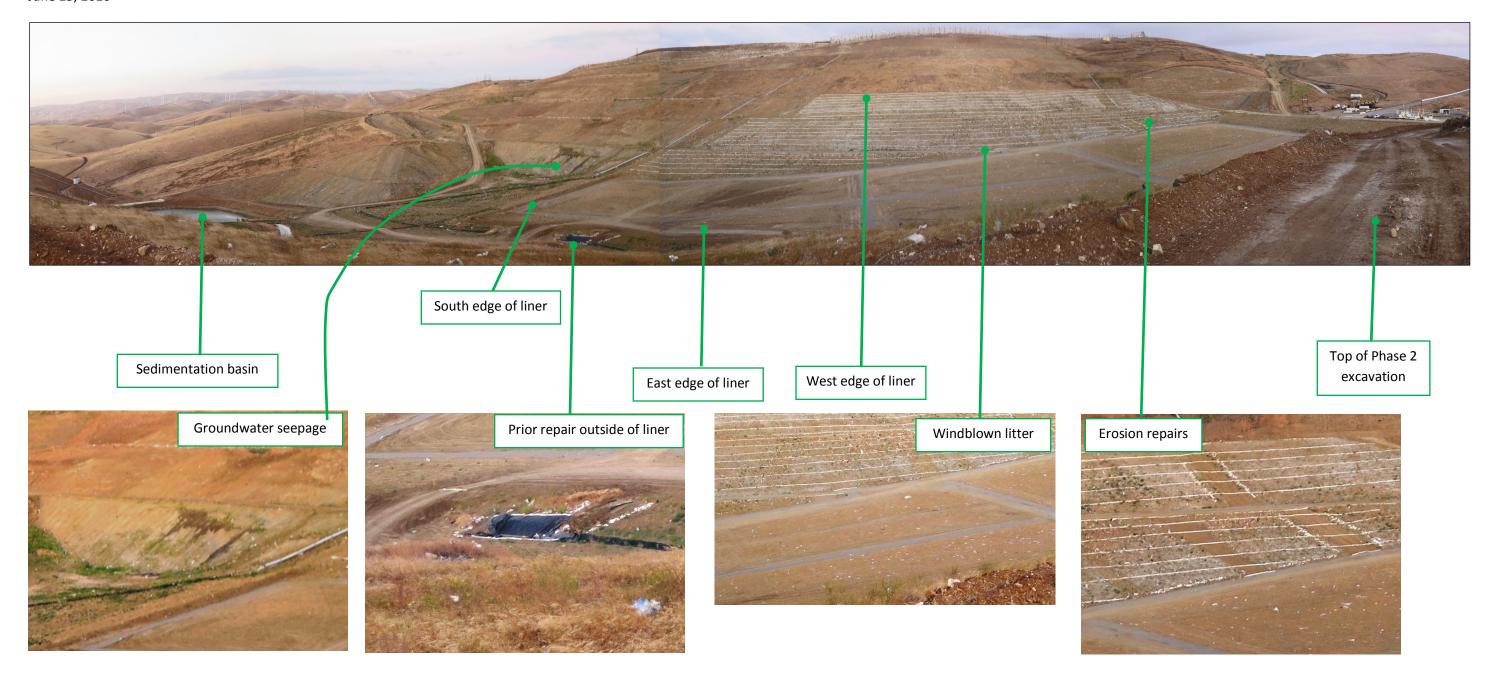
In Fill Area 2, the construction of the liner for the Phase 1 area is complete, erosional damage to the liner has been repaired, and other minor improvements have been made. Excavation for the Phase 2 area has begun. Phase 2 is immediately east of Phase 1. The photos on the following page show conditions in mid June. The second page shows the spatial relationship between Phase 1 and Phase 2 (they are adjacent).

As seen in the photos, erosional damage has been repaired, but windblown litter has been spread across the area. On the day that these photos were taken, the wind was so strong that it was difficult to stand while taking pictures. Also note the dark staining from groundwater seepage to the south of the Phase 1 area (the left side of the photo). In later phases, when the landfill liner covers this seepage, the liner will be underlain by a drainage blanket that is designed to conduct this water downslope before it can affect the liner.

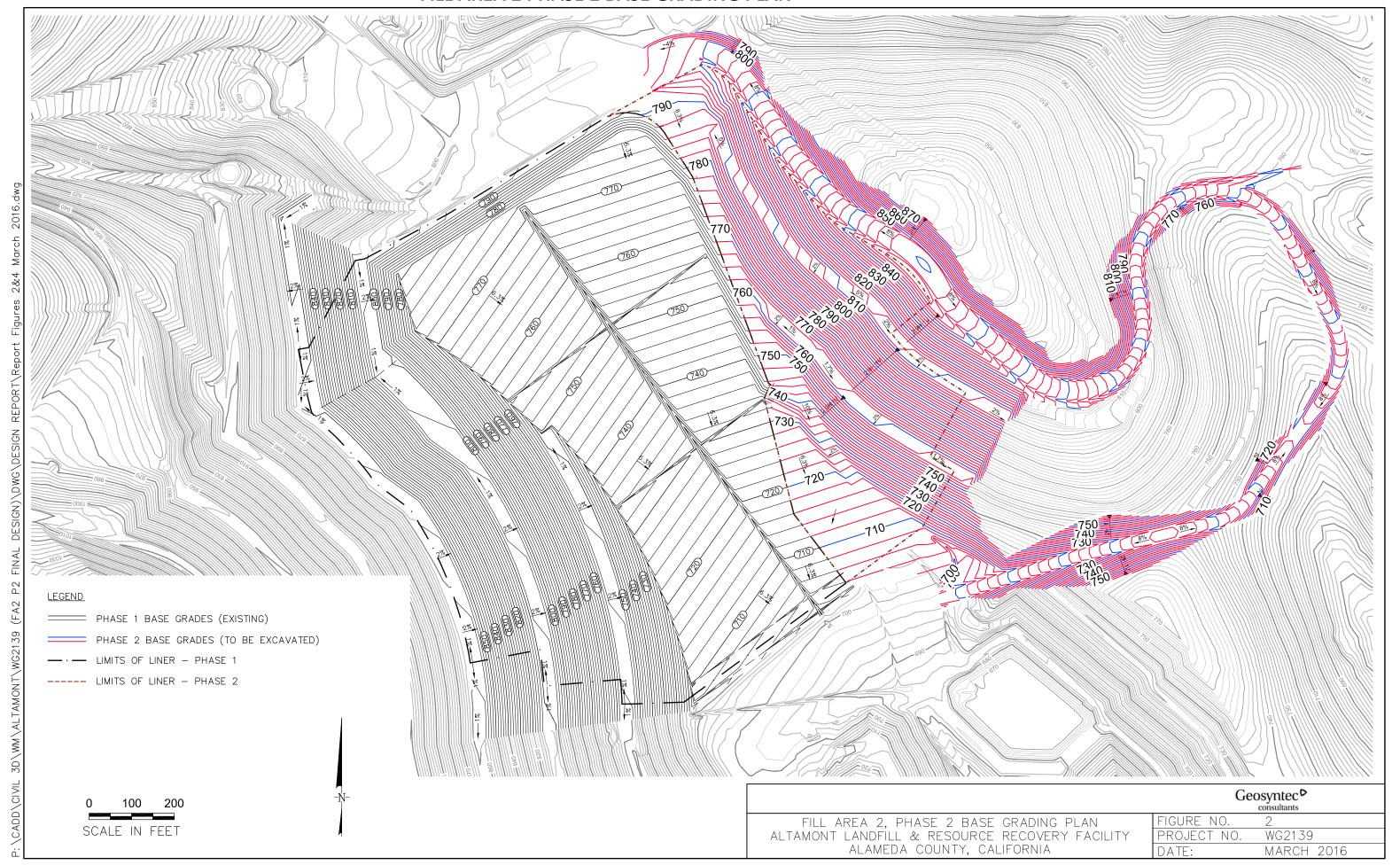
In the foreground at each side of the panoramic photo, new excavation can be seen. This excavation will continue downward to carve a smooth side into the Fill Area 2 canyon so that the liner materials can be applied. This is shown on the design drawing which follows the photos. The drawing was downloaded from the Central Valley Regional Water Quality Control Board's "Geotracker" web site, which is open to the public.

View of Fill Area 2 Phase 1, looking west

June 15, 2016



FILL AREA 2 PHASE 2 BASE GRADING PLAN



memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Kelly Runyon

subject CMC Meeting of 7/13/16 - Agenda Item 6.4 - Reports from Community Monitor

Attached are inspection reports for April through June of 2016.

The April inspection was unannounced and took place on April 13, with the LEA.

The May inspection was announced and took place on May 11.

The June inspection was announced and took place on June 15 at 5 AM (off-hours).

During these inspections, all landfill operating areas were observed. Recent LEA inspection reports were reviewed on-line.

In preparing these reports, issues that cause special concern are marked with yellow rectangles in the monthly inspection reports. There were several issues during the second quarter, listed below. None of these is serious enough to be considered a violation of permit conditions or regulations, but they continue to require attention from ALRRF operations staff:

- Windblown litter continues to be a problem as Fill Area 1 operations add to the top of the landfill.
- Although it is not yet in use, Fill Area 2 has required maintenance to repair erosional damage.

There have also been positive developments this quarter. The entry road had been deteriorating even before the recent wet winter occurred; it has been repaved. Seagull activity has diminished, as it has done for the past several years in the springtime. The design of the next phase of Fill Area 2 has been completed and excavation has begun.

Also attached are graphs showing monthly tonnages by type of material for the most recent 12-month period, as in prior reports. Figure 6.4-1 shows the breakdown of materials that make up Revenue-Generating Cover. Figure 6.4-2 shows these same quantities, plus the Municipal Solid Waste (MSW) and Special Waste tonnage for each month. Refuse tonnage, which decreased by more than 1/3 with the departure of San Francisco's solid waste, increased slightly from February through May. Other materials such as Class 2 cover soil, auto shredder fluff, etc., were delivered in quantities similar to prior months.

Class 2 soil files were reviewed by Langan staff in late May. Sixty-four files were reviewed, and other than one missing lab report (which was promptly provided), no discrepancies were found.

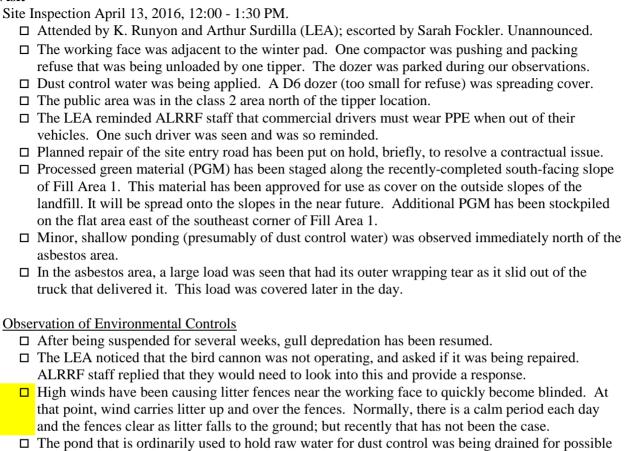
ALRRF Community Monitor Monthly Report

Reports Received Monthly Ton

onthly Tonna	age Report for March 2016, received April 15, 2016			
Tonnage	Summary:		<u>tons</u>	
Dis	posed, By Source Location			
1.1	Tons Disposed from Within Alameda County		76,192.61	
1.2	Tons Disposed from City of San Francisco TS		0.00	
1.3	Other Out of County Disposal Tons	_	2,157.93	
	sı	ibtotal Disposed	78,350.54	
Dis	posed, By Source Type			
2.1	C&D		692.13	
2.2	MSW		54,780.72	
2.3	Special Wastes	_	22,877.69	
	su	ıbtotal Disposed	78,350.54	
Dif	ference		0.00	0.00%
Oth	er Major Categories			
2.4	Re-Directed Wastes (Shipped Off Site or Beneficial	ly Used)	70.18	
2.5	Revenue Generating Cover		34,990.21	
		Total, 2.1 - 2.5	113,410.93	
Mat	terials of Interest			
2.3.1	Friable Asbestos		1,551.80	
2.3.2	Class 2 Cover Soils		8,921.66	
2.5.1	Auto Shredder Fluff		14,373.33	
2.5.2	Processed Green Waste/MRF fines, Beneficial Use	(GSET)	130.07	
2.5.3	MRF Fines for ADC		2,965.36	

future use as a leachate pond.

Site Visit



Fill Area 2

- ☐ There was grassy vegetation throughout the base of the Phase 1 area, and on both side slopes.
- □ Several minor erosional rills were seen in the operations layer in the base of Fill Area 2 Phase 1. These will need to be repaired prior to the placement of refuse.
- □ ALRRF staff indicated that Phase 1 repair work will be performed as part of Phase 2 installation, and the Phase 2 contract will be authorized in the near future.
- □ Plastic sheeting had been placed across transition areas in drainage ditches immediately east of the Phase 1 lined area.
- The eroded area at the north end of the west side slope had not yet been repaired, and there was a second eroded area, smaller, farther to the south along the side slope. See photo below.



Stormwater Controls and Best Management Practices

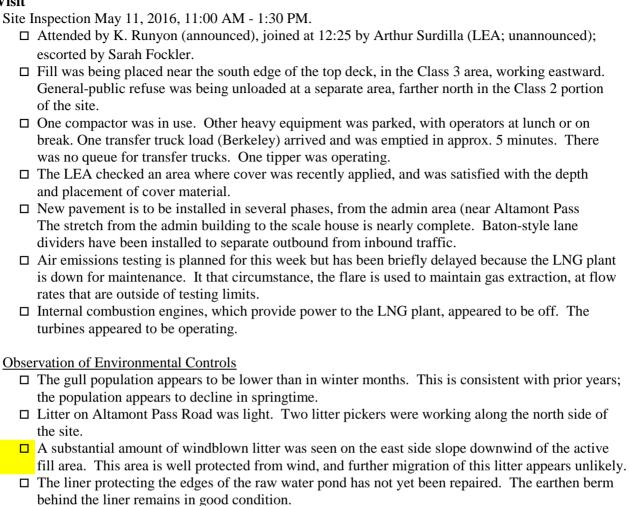
- □ Stormwater basin A was at its normal level; the water level was below the inlet of the discharge riser.
- □ Stormwater basin B water level was very low. The discharge riser was fully exposed. The basin appeared to be free of litter.
- □ Basin C was not observed.
- □ All stormwater basins serving Fill Area 2 were nearly full. The north basins had no litter; the south basin, a minimal amount.

ALRRF Community Monitor Monthly Report

Reports Received Monthly Ton

	age Report for April 2015, received May 16, 2016		
Tonnage Summary:		tons	
Dis	sposed, By Source Location		
1.1	Tons Disposed from Within Alameda County	57,182.08	
1.2	Tons Disposed from City of San Francisco TS	0.00	
1.3	Other Out of County Disposal Tons	1,498.18	
	subtotal Disposed	58,680.26	
Dis	sposed, By Source Type		
2.1	C&D	241.57	
2.2	MSW	54,863.31	
2.3	Special Wastes	3,575.38	
	subtotal Disposed	58,680.26	
Dif	ference	0.00	0.00%
Oth	ner Major Categories		
2.4	Re-Directed Wastes (Shipped Off Site or Beneficially Used)	1,014.36	
2.5	Revenue Generating Cover	32,720.35	
	Total, 2.1 - 2.5	92,414.97	
Ma	iterials of Interest		
2.3.1	Friable Asbestos	1,478.33	
2.3.2	Class 2 Cover Soils	7,161.91	
2.5.1	Auto Shredder Fluff	13,120.91	
2.5.2	Processed Green Waste/MRF fines, Beneficial Use (GSET)	168.26	
2.5.3	MRF Fines for ADC	3,167.35	

Site Visit



☐ Goats continue to be used to reduce vegetation as a fire prevention measure.

ALRRF Community Monitor Monthly Report

Fill Area 2

- ☐ Liner leak-testing was being performed in the Phase 1 area.
- □ ALRRF staff stated that Phase 2 construction is expected to begin in June or July, and the first refuse may be placed in Fill Area 2 in June.
- ☐ Groundwater monitoring wells were being installed at the newly constructed leachate pond.
- ☐ Erosion problems on the Phase 1 side slopes and base have been repaired; see below.



Wetland Features in Conservation Plan Area

To help with review of Fill Area 2 mitigation documents, an attempt was made to observe all of the wetland features described in the Conservation Plan Area baseline report. In practice, they were difficult to locate, but the Seep and the North Alkali Wetland were located and photographed. The East Alkali Wetland was located but was not photographed, because the LEA had arrived for a semi-monthly inspection. This was combined with the Community Monitor inspection for the balance of the time on site. Afterward, the West Alkali Wetland and associated stock ponds were located and photographed from Dyer Road.

Reports Received Monthly Ton

s Receive	u		
Ionthly To	onnage Report for May 2016, received June 15, 2016		
Tonnage Summary:			
	Disposed, By Source Location		
1.1	Tons Disposed from Within Alameda County	65,738.85	
1.2	Tons Disposed from City of San Francisco TS	0.00	
1.3	Other Out of County Disposal Tons	1,299.44	
	subtotal Disposed	67,038.29	
	Disposed, By Source Type		
2.1	C&D	269.23	
2.2	MSW	62,653.45	
2.3	Special Wastes	4,115.61	
	subtotal Disposed	67,038.29	
	Difference	0.00	0.00%
	Other Major Categories		
2.4	Re-Directed Wastes (Shipped Off Site or Beneficially Used)	1,496.91	
2.5	Revenue Generating Cover	39,714.37	
	Total, 2.1 - 2.5	108,249.57	
	Materials of Interest		
2.3.1	Friable Asbestos	1,137.83	
2.3.2	Class 2 Cover Soils	16,726.10	
2.5.1	Auto Shredder Fluff	15,765.58	
2.5.2	Processed Green Waste/MRF fines, Beneficial Use (GSET)	40.75	
2.5.3	MRF Fines for ADC	2,059.40	

ALRRF Community Monitor Monthly Report

Site Visit

Site Inspection June 15, 2016, 5:00 AM - 6:30 AM. ☐ Attended by K. Runyon; escorted by Terry Medieros. Announced. ☐ At about 5:15 AM, two tippers were operating and three transfer trucks were waiting to unload (total of 5 transfer trucks in the area). The queue became shorter while we were observing. Terry mentioned that the site has begun to use the second tipper from 4AM to noon, to keep up with incoming loads, which now include some loads from the Berkeley Transfer Station. □ One compactor and one dozer were operating. A second compactor will operate starting at 8 AM, to help reach the target compaction. ☐ The two working tippers are in the process of being relocated a short distance eastward. One had recently been moved, and the other will be moved later in the morning. All tippers at the site are now CNG fueled, using gas produced at the landfill. ☐ The C&D bunker contained pallets, scrap lumber and some office furniture. No inappropriate or prohibited items were seen. ☐ The green waste bunker was quite full; all material appeared to be plant debris. The public area was not active, and the previous day's material was covered. □ Solidification areas are in use; one was recently emptied. The dry material staged for mixing was all treated auto-shredder waste, which is approved for this use. On the main road approaching the scale area, pylons that were placed to divide inbound from outbound lanes have been significantly damaged by truck traffic. Terry attributed some of this to a recent surge of bottom-dumping double-trailer trucks, which tend to require a wider lane on curves. ☐ Repaying and repair of the main access road is continuing, with the focus on the main scale area. The inbound scales are coned off, and the outbound scale platforms are being used for inbound and outbound loads. This did not cause any traffic problems during these observations. Observation of Environmental Controls ☐ Few gulls were seen at this early hour. The Dyer Road reservoir also did not appear to have as many gulls as usual. Strong winds for the past few days may be suppressing gull activity, or it may have been too early in the day for them to be present. □ A large raptor, probably a golden eagle, was seen while enroute to Stock Pond 11 in the northwest corner of the Conservation Plan Area. It took off from a north-facing hillside as our vehicle ☐ The raw water pond has been almost completely drained to prepare for removal of the damaged liner material. Some of that liner has recently been disturbed by the wind, now that the water is not there to help keep it in place. ☐ Litter on Altamont Pass Road was very light in both directions. The new covers for Davis Street trucks, plus the absence of San Francisco loads, may be enabling the litter pickup crew to keep up more effectively along the road.

☐ The goat herd seen in prior months apparently has been removed.

Fill Area 2

□ Vegetation in the Phase 1 area has largely turned brown as the rainy season has ended. Recent high winds have carried light materials into Fill Area 2, on the bottom and the west side slope:



□ Excavation work has begun on the Phase 2 portion of Fill Area 2, which is east of Fill Area 1. Excavated soil is being stockpiled immediately north of the Phase 2 area. It appears that if the Phase 1 area begins to receive refuse, that will not interfere with preparation of Phase 2. Some repair work appears to be continuing in the bottom portion of Phase 1.

Stormwater Controls and Best Management Practices

- ☐ Stormwater basin A has dropped about a foot since last month. Dried algae along the banks indicates that this was a rapid drop, probably due to the lack of continuing rainfall. No litter was seen at this basin.
- □ Stormwater basin B contained some water, well below the discharge level. Litter was minimal around the perimeter of the basin.
- ☐ Basin C was not observed.
- □ Basin SB-1 north of Fill Area 2, contained water but the water level was several feet below the inlet of the discharge riser. SB-2, farther north, and SB-A near the south end of FA2 contained water that was closer to the discharge elevation. Litter was minimal to none at all 3 locations.

Special Occurrences Log

- □ Numerous vehicular incidents have been logged in recent months: mishaps while tipping on June 6 and 7 (both involving Berkeley loads), a parked truck rolling into K-rail May 26, dump-trailer overturns on March 21 and April 11, and damage while assisting a customer truck on May 23. No injuries were associated with these incidents. Oil leakage, when it occurred, was properly contained and disposed.
- □ On March 9, a hydraulic leak at the paved entry to Fill Area 2 was cleaned up and the material disposed.
- ☐ There was also a small fire involving scrap wood in a dumped asbestos load, on May 18. It was quickly extinguished by on-site staff and equipment.

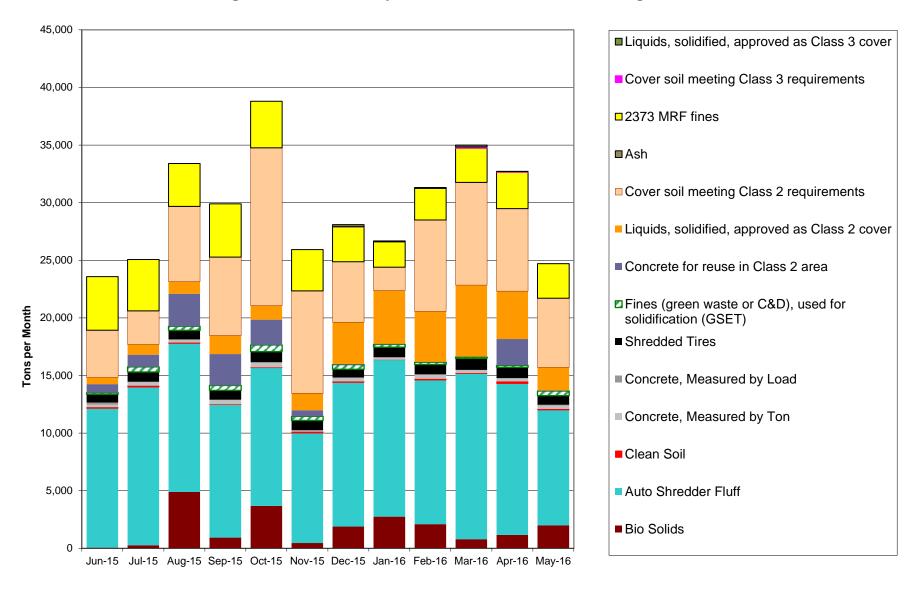


Figure 6.4-1 Monthly Volumes of Revenue-Generating Cover

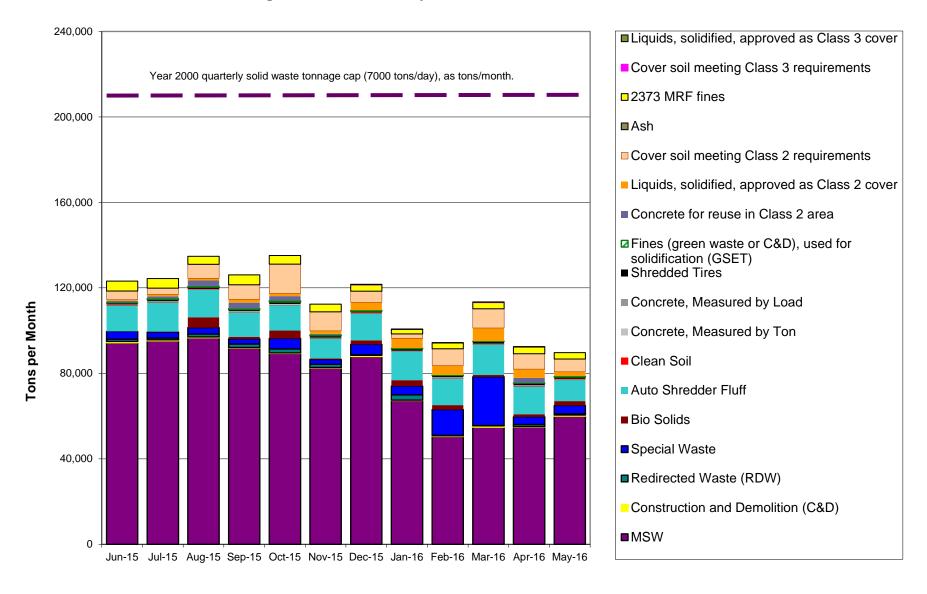


Figure 6.4-2 Monthly Volumes of Landfilled Materials

memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Kelly Runyon

subject CMC Meeting of 7/13/16 - Agenda Item 6.5 - Status of Five-Year Permit Review

Executive Summary

The Central Valley Regional Water Quality Control Board adopted revised Waste Discharge Requirements (WDRs) for the ALRRF on June 24, 2016. These are broader, more stringent and more detailed than the previous WDRs, which were developed in 2009. They impose new requirements in many areas, notably:

- The ability of the ALRRF to develop and use several surface impoundments (ponds) for leachate and other liquids
- The solidification process currently used to manage liquid wastes
- Groundwater monitoring, especially where local impacts to groundwater have occurred
- Landfill gas and soil-pore gas monitoring
- Approval of design of future Phases of Fill Area 2
- Final cover design and testing for Fill Area 1

The development of these WDRs involved a great deal of explanation and clarification by Waste Management staff to Water Board permitting staff. The end result is a set of requirements that reflect a better understanding of the site hydrogeology but still require an increased level of environmental monitoring and protection. Some requirements shifted from direct prescriptions to a "submit a work plan" approach. As such work plans appear on the Water Board's web site, we plan to review and summarize them.

Next steps: the LEA and CalRecycle may now complete their review and issue an updated or revised Solid Waste Facility Permit.

Details

The LEA and CalRecycle administer the Solid Waste Facility Permit for the ALRRF, and the Water Board administers Waste Discharge Requirements (WDRs) for the site. These two permits govern the details of design, operations and monitoring related to waste handling and water resource protection. It is a regulatory requirement that these documents be reviewed and, if necessary, updated at least every five years.

As part of the five-year permit review process, the ALRRF prepared a revised Joint Technical Document (JTD), which describes the measures that the ALRRF will take to comply with regulations. This was initially submitted for review to the LEA (County Environmental Health), CalRecycle, and the Central Valley Regional Water Quality Control Board (Water Board) on July 30, 2015. Waste Management further revised the JTD, updating certain aspects of design and operations, in November 2015. This involved numerous minor clarifications and corrections, plus a few more substantial changes, including:

- The description of the liquids to be handled by the three new ponds was broadened to also include "any non-hazardous liquid waste compatible with the impoundment containment system" in addition to the untreated leachate, truck wash water, and contaminated groundwater that were mentioned in the earlier JTD version.
- Details of two of the ponds' liner designs were deleted from the JTD and referenced to a separate design
 document that had been produced by Golder Associates in 2009. That design was included with the 2010
 JTD, but the ponds were not fully constructed; nor have they been operated, except to store water for use
 in dust control and fire protection.
- The remaining permitted capacity of the currently-operating Fill Area 1 was increased by 3.92 million tons, corresponding to the increase permitted by the Bay Area Air Quality Management District in 2015.

As part of the permit review process, the Water Board issued a tentative update to the WDRs in early 2016. This update was much more stringent than the current WDRs, requiring significant changes to current practices. At over 90 pages, it was nearly twice the length of the current WDRs as well. This is partly a reflection of the complexity of the present situation: Fill Area 1 has a limited remaining capacity; Phase 1 of Fill Area 2 Unit 1 has been constructed and is ready for operation; Phase 2 construction has begun; and new features including several leachate ponds are part of the overall design. It is also a reflection of numerous recent Water Board staff concerns regarding environmental issues at the landfill, some of which are:

- errors in groundwater elevation data (subsequently corrected)
- a sampling pump that failed to operate for three consecutive quarters of sampling
- detection of VOCs in recently-installed monitoring wells
- ongoing detection of contaminants in monitoring wells E-20B, E-05 and E-07
- ongoing detection of contaminants in valley drains (under the liners) beneath Fill Area 1
- the low-flow purging procedure used by ALRRF consultants when sampling from monitoring wells
- the validity of the groundwater hydrogeological conceptual model developed by ALRRF consultants
- the dinoseb disposal incident in 2014, with subsequent detection of dinoseb during the 2015 round of five-year Constituents of Concern testing
- the need for additional monitoring wells and more frequent sampling, for a broader range of possible contaminants
- the adequacy of the Sampling and Analysis Plan included with the ALRRF's revised Joint Technical Document
- leachate seeps that occurred on the landfill in 2015

In addition, these tentative WDRs included a new section titled "Previous Enforcement" which describes several Violations, including the dinoseb incident and the excavation of Phase 1 of Fill Area 2 prior to Water Board staff approval of the Phase 1 design.

Waste Management provided formal comments on the tentative WDRs prior to the April Water Board meeting, when the WDRs were scheduled for adoption. To address these comments, Water Board staff pulled the item from the April agenda and scheduled it for the Board's June meeting. In May, Waste Management provided additional comments and met with Water Board staff. In general, Waste Management's comments asserted the following:

• Incomplete, inaccurate and biased information is contained in the Previous Enforcement section of the WDRs. (Based on information available to the Community Monitor, this comment appeared to be valid.)

- The new tentative WDRs effectively rescind prior Water Board approvals of designs and operational practices.
- Requirements for certain processes (solidification, pond management) unreasonably limit operating flexibility or are simply unworkable.
- Some of the new monitoring requirements are overly burdensome and unnecessary.

Water Board staff issued revised tentative WDRs as part of the Board's June agenda packet, making changes in numerous areas, providing flexibility (items 1 - 3 below) but also increasing and further supporting the stringency of other requirements (items 4 - 13):

- 1. Adjusting reporting deadlines to accommodate the delay in adoption of the WDRs.
- 2. Adding the ability to discharge other liquids to the proposed ponds if pond water balances are submitted and approved.
- 3. Removing groundwater monitoring requirements that extend below known aquifers.
- 4. Providing more background information in the Findings section of the WDRs, to substantiate more stringent groundwater monitoring requirements.
- 5. Describing the need to monitor groundwater near well E-20B more closely.
- 6. Describing the need to monitor leachate quality at the toe of Fill Area 2 rather than at the leachate pond.
- 7. Adding operational requirements for the new leachate pond, and limiting its use to Fill Area 2 leachate only.
- 8. Adding requirements for management of leachate and landfill gas condensate.
- 9. Adding requirements for the solidification process that would reduce moisture levels in solidified wastes.
- 10. Adding construction requirements for liners and leachate handling systems.
- 11. Requiring slope stability analyses for each phase of construction of Fill Area 2.
- 12. Removing the option for the ALRRF to proceed with construction of future Fill Area 2 phases "at their own risk", i.e. without prior Water Board staff approval of each phase.
- 13. Adding requirements for final cover and closure of Fill Area 1, and requiring a work plan for prompt closure.

Discussions between Water Board staff and Waste Management staff continued. Two days before the topic was to be heard by the Water Board, Board staff issued further revisions to the WDRs; key points in those revisions are:

- The current Monitoring and Reporting Program (MRP) will remain in effect until September 23, 2016, to provide time to finalize the new MRP.
- A new requirement to monitor groundwater in deep bedrock was removed.
- A new requirement to monitor any springs within one mile of the facility boundary was limited to springs downgradient of Fill Areas 1 and 2.
- Technical details of several WDRs were clarified.
- A prohibition against disposing of underdrain liquids into the landfill was removed.
- When contaminants are found during the 5-year Constituents of Concern sampling, "promoting" them
 into the quarterly or semiannual monitoring cycle should take into consideration "laboratory falsepositives, the repeatability of detections and the effectiveness of a particular COC in providing early
 indication of a potential release."
- Monitoring of the landfill gas extraction system was focused on areas near wells E05/E-07 and E-20B.
- The frequency of groundwater monitoring and the number of substances to be monitored was reduced; however, the groundwater monitoring requirements are still significantly more stringent than at present.

Throughout the revision process, various WDRs shifted from prescriptive requirements to a workplan-oriented approach. As such work plans appear on the Water Board's web site, we plan to review and summarize them for the Committee.

memorandum

date July 1, 2016

to ALRRF Community Monitor Committee

from Kelly Runyon

subject CMC Meeting of 7/13/16 - Agenda Item 6.6 - Reducing Truck Traffic Counts

Currently, Section 5.9 of the Settlement Agreement allows the Community Monitor to independently count trucks arriving at the Altamont Landfill up to six times per year¹. In recent years the Committee has directed the Community Monitor to conduct such counts twice a year, to check compliance with the Conditional Use Permit condition² that limits traffic to 50 refuse trucks per hour between 6:45 AM and 8:45 AM. Until recently, typical results of these counts have been in the range of 20 to 25 refuse trucks during the peak 60-minute period within that two-hour interval.

With the recent cessation of refuse deliveries from the San Francisco transfer station, truck traffic during the two-hour morning limitation period has declined noticeably. The most recent count, in late January 2016 after San Francisco deliveries had ceased, logged 15 refuse trucks during the entire 2-hour period. Moreover, morning traffic congestion creates a significant incentive for all ALRRF customers to avoid sending loads to the landfill during that period. This calls into question the need to conduct traffic counts at all.

The Settlement Agreement does not limit traffic counting to particular days or hours. Two two-hour traffic counts per year are included in the current budget for Community Monitor services. Current tonnage levels, and the traffic observed in January, indicate that compliance with the CUP limit is unlikely to be an issue in the foreseeable future.

The Committee may direct the Community Monitor to continue with the current practice or modify it, within the limits of the Settlement Agreement. The least-cost approach would be to monitor reported daily tonnages and truck counts and suspend truck counting until tonnages or truck counts indicate a significant increase in refuse truck traffic.

^{1 &}quot;5.9 <u>Truck Counts</u>. The Community Monitor may conduct periodic independent counts of trucks arriving at the ALRRF ... During the first year .. up to 12 single day counts of truck trips may be conducted. During subsequent years, up to 6 single day counts of truck trips may be conducted..."

² Condition 66 of CUP-5512, March 9, 2000; see http://www.altamontcmc.org/uploads/Official NOD and CUP.pdf

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COMMUNITY MONITOR COMMITTEE STAFF REPORT

TO: Community Monitor Committee Members

FROM: Judy Erlandson, Public Works Manager

SUBJECT: Extension to Agreement with Environmental Science Associates for

Community Monitor Consulting Services

RECOMMENDED ACTION

Staff recommends the Community Monitor Committee (CMC) execute the first extension to the Agreement for Consulting Services with Environmental Science Associates (ESA) for one three-year term.

BACKGROUND

The Settlement Agreement, dated November 30, 1999, between the County of Alameda, the City of Livermore, the City of Pleasanton, Sierra Club, Northern California Recycling Association, Altamont Landowners Against Rural Mismanagement, and Waste Management of Alameda County, Inc. (Settlement Agreement), provided for the hiring of a Community Monitor to monitor the Altamont Landfill and Resource Recovery Facility's (ALRRF) compliance with environmental laws and regulations and to advise the public and the Cities of Livermore and Pleasanton about technical issues relating to the ALRRF.

DISCUSSION

The current Agreement with ESA expires on December 31, 2016; section 7 of the Agreement contains an option to extend it for one additional three-year term with unanimous approval from the CMC at a CMC meeting.

At the April 13, 2016 CMC meeting, the CMC members unanimously approved a threeyear extension to the ESA contract for Community Monitor services. The extension term begins January 1, 2017 and ends on December 31, 2019.

Staff recommends the CMC execute the Agreement for Consulting Services with ESA for one, three-year extension in an amount not to exceed \$88,000 for services conducted in the first year of the Agreement.

MEETING DATE:

July 13, 2016

AGENDA ITEM:

6.8

Approved by:

Judy Erlandson

Public Works Manager

ndy Gelander

EXERCISE OF FIRST EXTENSION OPTION FOR PROFESSIONAL SERVICES

THIS FIRST EXTENSION is made and entered into this _____ day of _____, 2016, by and between the Community Monitor Committee ("Committee"), and Environmental Science Associates ("Consultant"), a California Corporaton.

RECITALS

On October 8, 2013, Committee and Consultant entered into an agreement for Consultant to provide professional Community Monitor services to Committee ("Original Agreement"). Section 7 of the Original Agreement contains an option to extend it for one additional three year term with unanimous approval from the Committee at a Community Monitor meeting.

Committee and Consultant desire to extend the Original Agreement for an additional term from January 1, 2017 to December 31, 2019. This is the first extension to the Original Agreement.

AGREEMENT

NOW, THEREFORE, Committee and Consultant agree that the aforementioned recitals are true and correct and further agree as follows:

- 1. The term of the Original Agreement is extended for an additional three year term commencing January 1, 2017 and ending December 31, 2019.
- 2. The total compensation for work conducted in the first year of the extension period **SHALL NOT EXCEED** the sum of \$88,000 ("not-to-exceed amount") in the first year. The total compensation for work conducted in subsequent years shall be determined as set forth in Section 5 of the Original Agreement.
- 3. This is the final extension option allowed by section 7 of the Original Agreement.
- 4. This extension does not relieve the parties of the terms and conditions of the Original Agreement as written and in effect at the time the Services were rendered.
- 5. Except as amended above, the Original Agreement shall remain in full force and effect.

Extension Option – Comm. Monitor Committee Rev. 4/2016

In concurrence and witness whereof, and in recognition of the mutual consideration provided therefore, the parties have executed this agreement, effective on the date first written above.

CONSULTANT:	Dated:
By: Title:	5/31/16
COMMUNITY MONITOR COMMITTEE:	Dated:
, City of Livermore 1052 S Livermore Avenue Livermore, CA 94560 , City of Pleasanton	Dated: 6/21/11
123 Main Street Pleasanton, CA 94566	Dated:
, Northern California Recycling Associati	on
	Dated:
, Sierra Club	
Approval of this Extension made by the Comm in the minutes of that meeting.	ittee on, as shown
APPROVED AS TO FORM: Assistant/City Attorney City of Livermore	APPROVED AS TO FORM: Assistant/City Attorney City of Pleasanton

Extension Option – Comm. Monitor Committee Rev. 4/2016