### Appendix C - Costs to Individual

**Land Application Activities** 

Duties	Count <sup>1</sup>	Service Fee Cost <sup>2</sup>	Month / Year	Equipment Rental Cost <sup>3</sup>	Total Cost / Year	% Adjust <sup>4</sup>	Adjusted Total Cost / Year
Enforcement Agency Notification filing (low range): Costs incurred by the Land Application Activity operator or owner to apply for the EA Notification regulatory tier to reflect the EA's service (filing) fee which is based on the EA's median hourly rate of \$168.83 (equivalent to 1 inspection). We know that there will be an inspection conducted by the EA after the completion of each land application, assuming up to 3 land applications, for that fiscal year. Additionally, it is difficult to justify the EA to charge for additional inspections once the EA notification has been issued if the EA notification filing fee only accounts for 1 inspection. This cost is based on a low range estimation that 10 sites that are land applying material would fall under the Land Application Activity regulatory tier. Thus, operators or owners would be required to file for an EA Notification with their LEAs. The formula to calculate the total cost for this low range is as follows: (Count) x (Service Fee costs).	10	\$505.25	N/A	N/A	\$5,052.50	N/A	N/A
Enforcement Agency Notification filing (high range): Costs incurred by the Land Application Activity operator or owner to apply for the EA Notification regulatory tier to reflect the EA's service (filing) fee which is based on the EA's median hourly rate of \$168.83 (equivalent to 1 inspection). We know that there will be an inspection conducted by the EA after the completion of each land application, assuming up to 3 land applications, for that fiscal year. This cost is based on a high range estimate that 100 sites that are land applying material would fall under the Land Application Activity regulatory tier. Thus, operators or owners would be required to file for an EA Notification with their LEAs. The formula to calculate the total cost for this high range is as follows: (Count) x (Service Fee costs).	100	\$505.25	N/A	N/A	\$50,525.00	N/A	N/A

<sup>&</sup>lt;sup>1</sup> Duty count is an estimate based on the state's level of knowledge and experience regarding active, illegal land application activities under enforcement.

<sup>&</sup>lt;sup>2</sup> For EA Notification Filing, Service (Filing) fee costs is an average of the fees incurred by the operator to file a notification and be inspected 3 times per fiscal year by the local solid waste enforcement agency. For Equipment Delivery, Service (Delivery) fee cost is the based on the average cost of equipment delivery fee.

<sup>&</sup>lt;sup>3</sup> Equipment rental cost is based on the average monthly equipment rental rate in California, assuming the scenario that operator or owner would need equipment to spread material on the land.

<sup>4%</sup> Adjustment is based on unknown costs associated with renting the equipment such as use tax (average 8.837%), fuel cost, rental insurance cost (high of 16%), delivery/return cost (up to \$200 one way), etc.

# Appendix C – Costs to Individual

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Skid Steer - Equipment Rental (low range):	10	N/A	1	\$4,200	\$42,000	30%	\$54,600
Costs incurred by the Land Application Activity operator or							
owner to rent and use skid steer equipment for the purpose							
of spreading the material with the front bucket and pulling							
the tiller attachment to incorporate material into the land.							
The rental period is for a month as the regulations indicate							
that material shall be applied within 48 hours of receipt and							
must be incorporated within 30 days. Although rental							
company staff explained that tilling material on 5 acres							
would take a few days to complete, the 30-day requirement							
to incorporate the material would capture the highest cost for							
renting equipment. Thus, the highest cost for renting a							
middle-tier track skid steer sufficient to complete the task is							
\$4,200 per month. The equipment rental is also based on a							
low range estimate that 10 sites that fall under the Land							
Application Activity regulatory tier and would require a							
maximum period of one month to complete land application.							
We assume that the low range will capture only 1 land							
application completion in a fiscal year. For unknown cost							
associated with renting the equipment such as use tax							
(average 8.837%), fuel cost, rental insurance cost (high of							
16%), delivery/return cost (up to \$200 one way), etc., a 30%							
adjustment was incorporated to capture these unknown							
costs. The formula for calculating the total cost for this low							
range is as follows: (Number of Activities) x (Number of land							
application frequency per year) x (Equipment Cost per							
month) + (Number of Activities) x (Number of land							
application frequency per year) x (Equipment Cost per							
month) x (% Adjustment).							

<sup>&</sup>lt;sup>1</sup> Duty count is an estimate based on the state's level of knowledge and experience regarding active, illegal land application activities under enforcement.

<sup>&</sup>lt;sup>2</sup> For EA Notification Filing, Service (Filing) fee costs is an average of the fees incurred by the operator to file a notification and be inspected 3 times per fiscal year by the local solid waste enforcement agency. For Equipment Delivery, Service (Delivery) fee cost is the based on the average cost of equipment delivery fee.

<sup>&</sup>lt;sup>3</sup> Equipment rental cost is based on the average monthly equipment rental rate in California, assuming the scenario that operator or owner would need equipment to spread material on the land.

<sup>4%</sup> Adjustment is based on unknown costs associated with renting the equipment such as use tax (average 8.837%), fuel cost, rental insurance cost (high of 16%), delivery/return cost (up to \$200 one way), etc.

#### Appendix C - Costs to Individual

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Skid Steer - Equipment Rental (high range):	100	N/A	3	\$4,200	\$1,260,000	30%	\$1,638,000	
Costs incurred by the Land Application Activity operator or				, ,	, , ,			
owner to rent and use skid steer equipment for the purpose								
of spreading the material with the front bucket and pulling								
the tiller attachment to incorporate material into the land.								
The rental period is for a month as the regulations indicate								
that material shall be applied within 48 hours of receipt and								
must be incorporated within 30 days. Although rental								
company staff explained that tilling material on 5 acres								
would take a few days to complete, the 30-day requirement								
to incorporate the material would capture the highest cost for								
renting equipment. Thus, the highest cost for renting a								
middle-tier track skid steer sufficient to complete the task is								
\$4,200 per month. The equipment rental is also based on a								
high range estimate that 100 sites that fall under the Land								
Application Activity regulatory tier and would require a								
maximum period of one month to complete land application.								
We assume that the high range will capture only 3 land								
application completions in a fiscal year. For unknown cost								
associated with renting the equipment such as use tax								
(average 8.837%), fuel cost, rental insurance cost (high of								
16%), delivery/return cost (up to \$200 one way), etc., a 30%								
adjustment was incorporated to capture these unknown								
costs. The formula for calculating the total cost for this high								
range is as follows: (Number of Activities) x (Number of land								
application frequency per year) x (Equipment Cost for Land								
Application per month) + (Number of Activities) x (Number of								
land application frequency per year) x (Equipment Cost per								
month) x (% Adjustment).								

<sup>&</sup>lt;sup>1</sup> Duty count is an estimate based on the state's level of knowledge and experience regarding active, illegal land application activities under enforcement.

<sup>&</sup>lt;sup>2</sup> For EA Notification Filing, Service (Filing) fee costs is an average of the fees incurred by the operator to file a notification and be inspected 3 times per fiscal year by the local solid waste enforcement agency. For Equipment Delivery, Service (Delivery) fee cost is the based on the average cost of equipment delivery fee.

<sup>&</sup>lt;sup>3</sup> Equipment rental cost is based on the average monthly equipment rental rate in California, assuming the scenario that operator or owner would need equipment to spread material on the land.

<sup>4%</sup> Adjustment is based on unknown costs associated with renting the equipment such as use tax (average 8.837%), fuel cost, rental insurance cost (high of 16%), delivery/return cost (up to \$200 one way), etc.

# Appendix C – Costs to Individual

Tiller Attachment Rental (low range):	10	N/A	1	\$2,400	\$24,000	30%	\$31,200
Costs incurred by the Land Application Activity operator or							
owner to rent and use a rotary tiller (or disk) attachment,							
towed by the skid steer to spread and incorporate material							
into the land. The rental period is for a month as the							
regulations indicate that material shall be applied within 48							
hours of receipt and must be incorporated within 30 days.							
Although consultants explained that tilling material on 5							
acres would take a few days, the 30-day requirement to							
incorporate the material would capture the highest cost for							
renting equipment. Thus, the highest cost for renting a							
middle-tier track skid steer sufficient to complete the task is							
\$2,400 per month. The equipment rental is also based on a							
low range estimate that 10 sites that fall under the Land							
Application Activity regulatory tier and would require a							
maximum period of one month to complete land application.							
We assume that the low range will capture only one land							
application completion in a fiscal year. For unknown cost							
associated with renting the equipment such as use tax							
(average 8.837%), fuel cost, rental insurance cost (high of							
16%), delivery/return cost (up to \$200 one way), etc., a 30%							
adjustment was incorporated to capture these unknown							
costs. The formula for calculating the total cost for this low							
range is as follows: (Number of Activities) x (Number of land							
application frequency per year) x (Equipment Cost per							
month) + (Number of Activities) x (Number of land							
application frequency per year) x (Equipment Cost per							
month) x (% Adjustment).							

<sup>&</sup>lt;sup>1</sup> Duty count is an estimate based on the state's level of knowledge and experience regarding active, illegal land application activities under enforcement.

<sup>&</sup>lt;sup>2</sup> For EA Notification Filing, Service (Filing) fee costs is an average of the fees incurred by the operator to file a notification and be inspected 3 times per fiscal year by the local solid waste enforcement agency. For Equipment Delivery, Service (Delivery) fee cost is the based on the average cost of equipment delivery fee.

<sup>&</sup>lt;sup>3</sup> Equipment rental cost is based on the average monthly equipment rental rate in California, assuming the scenario that operator or owner would need equipment to spread material on the land.

<sup>4%</sup> Adjustment is based on unknown costs associated with renting the equipment such as use tax (average 8.837%), fuel cost, rental insurance cost (high of 16%), delivery/return cost (up to \$200 one way), etc.

### Appendix C - Costs to Individual

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Tiller Attachment Rental (high range):	100	N/A	3	\$2,400	\$720,000	30%	\$936,000
Costs incurred by the Land Application Activity operator or							
owner to rent and use a tiller (or disk) attachment, towed by							
the skid steer to spread and incorporate material into the							
land. The rental period is for a month as the regulations							
indicate that material shall be applied within 48 hours of							
receipt and must be incorporated within 30 days. Although							
consultants explained that tilling material on 5 acres would							
take a few days, the 30-day requirement to incorporate the							
material would capture the highest cost for renting							
equipment. Thus, the highest cost for renting a middle-tier							
track skid steer sufficient to complete the task is \$2,400 per							
month. The equipment rental is also based on a high range							
estimate that 100 sites that fall under the Land Application							
Activity regulatory tier and would require a maximum period							
of one month to complete land application. We assume that							
the high range will capture only 3 land application							
completion in a fiscal year. For unknown cost associated							
with renting the equipment such as use tax (average							
8.837%), fuel cost, rental insurance cost (high of 16%),							
delivery/return cost (up to \$200 one way), etc., a 30%							
adjustment was incorporated to capture these unknown							
costs. The formula for calculating the total cost for this high							
range is as follows: (Number of Activities) x (Number of land							
application frequency per year) x (Equipment Cost for Land							
Application per month) + (Number of Activities) x (Number of							
land application frequency per year) x (Equipment Cost per							
month) x (% Adjustment).							

Item	Low Range	High Range
Individuals (Land Application Activities)	\$90,852.45	\$2,624,524.50

<sup>&</sup>lt;sup>1</sup> Duty count is an estimate based on the state's level of knowledge and experience regarding active, illegal land application activities under enforcement.

<sup>&</sup>lt;sup>2</sup> For EA Notification Filing, Service (Filing) fee costs is an average of the fees incurred by the operator to file a notification and be inspected 3 times per fiscal year by the local solid waste enforcement agency. For Equipment Delivery, Service (Delivery) fee cost is the based on the average cost of equipment delivery fee.

<sup>&</sup>lt;sup>3</sup> Equipment rental cost is based on the average monthly equipment rental rate in California, assuming the scenario that operator or owner would need equipment to spread material on the land.

<sup>4%</sup> Adjustment is based on unknown costs associated with renting the equipment such as use tax (average 8.837%), fuel cost, rental insurance cost (high of 16%), delivery/return cost (up to \$200 one way), etc.